			82325-1002
MSDS for #82325 - MARABU	SKETCH MAR	KER	Page
Safety data sheet in accord	ance with regu	lation (EC) No 1907/2006	
Frade name: Marabu Sketch	Marker Alpha 6	Stla 985	
hade hame. Maraba Oketen		Version: 1/GB	Marabu Date revised: 17.02.2020
Substances must an 011000	0000404 005	Replaces Version: -/GB	Print date: 27.02.20
Substance number: 014800	0000101-965	Replaces Version / CD	1 mil date: 27.02.20
		e substance/mixture and	d of the
company/undertakin	g		
1.1. Product identifier Marabu Sketch Mark	er Alpha 6tlg. 98	85	
1.2. Relevant identified	uses of the	substance or mixture and us	ses advised against
Use of the substance/p			0
Paint			
Identified Uses	0		
SU21 PC9a		ses: Private households (= general p I paints, thinners, paint removers	ublic = consumers)
	0		
1.3. Details of the supp		arely uala Sheet	
Address/Manufactur Marabu GmbH & Co.			
Asperger Strasse 4	ΝG		
71732 Tamm			
Germany			
Telephone no.	+49-7141/69	1-0	
Fax no.	+49-7141/69	1-147	
Information provided	Department p	product safety	
by / telephone			
E-mail address of person responsible	PRSI@maral	bu.com	
for this SDS			
1.4. Emergency telepho	one number		
(+49) (0)621-60-4333			
SECTION 2: Hazards	dentificat	tion	
2.1. Classification of th	e substance	e or mixture	
Classification (Regu	lation (EC) No	o. 1272/2008)	
Classification (Regula	ation (EC) No. 1	272/2008)	
	Flam. Liq. 2	H225	
	Eye Irrit. 2	H319	
2.2. Label elements			
Labelling accordin	g to regulati	on (EC) No 1272/2008	
Hazard pictograms			
\wedge			
<u> </u>	>		
Signal word			
_			
Danger			
Hazard statements			
H225		able liquid and vapour.	
H319		ous eye irritation.	
Precautionary stater			

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fety data sheet in accord	ance with regu	lation (EC)	No 190				
ade name: Marabu Sketch	Marker Alpha 6	tlg. 985					$\setminus V$
		Version:	1 / GE	3		Date revised:	17.02.2020
ubstance number: 014800	0000101-985	Replace	s Versio	on: -/G	В	Print da	ate: 27.02.20
P101				e produc	t containe	r or label at hand.	
P102 P210		om heat, ho		es, spar	ks, open fl	ames and other ignit	ion
P264.1	sources. No s Wash hands t		oftor bo	ndling			
P280	Wear protecti	ve gloves /	protecti	ve clothi	ng / eye pi	rotection / face prote	ction.
P305+P351+P338	IF IN EYES: F lenses, if pres					I minutes. Remove c	ontact
P501.9	Dispose of co					te.	
3. Other hazards							
No special hazards h	ave to be mention	oned.					
ECTION 3: Compos	sition/infor	mation o	on in	gredie	<u>ents</u>		
2. Mixtures							
Hazardous ingredier	nts						
Ethanol							
CAS No. EINECS no.	64-17-5 200-578-6						
Registration no.	01-21194576	10-43					
Concentration	>=	50	<	100	%		
Classification (Regul	ation (EC) No. 1	272/2008)					
Charles (Fregue	Flam. Liq. 2		H225				
	Eye Irrit. 2		H319				
Concentration limits	(Regulation (EC) Eye Irrit. 2	No. 1272/2 H319		50 %			
1-Methoxy-2-propano							
CAS No. EINECS no.	107-98-2 203-539-1						
Registration no.	01-21194574	35-35					
Concentration	>=	10	<	20	%		
Classification (Regul	ation (EC) No. 1	272/2008)					
, <u> </u>	STOT SE 3	,	H336				
	Flam. Liq. 3		H226				
ECTION 4: First aid	measures						
1. Description of first							
General information							
In all cases of doubt,	or when sympto	ms persist,	seek m	nedical at	ttention. N	ever give anything by	y mouth
to an unconscious pe							
After inhalation							4 m m
Remove to fresh air, artificial respiration.	keep patient wa	rm and at re	est. If bi	reathing i	s irregular	or stopped, adminis	ter
After skin contact							
Remove contaminate cleanser. Do NOT us			ughly v	ith soap	and water	r or use recognised s	kin
After eye contact							
-						the eyelids apart for a	

MSDS for #82325 - MARABU SKETCH MARKER Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Sketch Marker Alpha 6tlg. 985

Version: 1/GB

Substance number: 0148000000101-985

Date revised: 17.02.2020 Print date: 27.02.20

minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Replaces Version: - / GB

4.2. Most important symptoms and effects, both acute and delayed Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks

Safety data sheet in accordance wi	H MARKER	EC) No 1007/2006		Page	
ourcey data sheet in accordance wi	mregulatio	, (EG) NU 1907/2006			
Trade name: Marabu Sketch Marker	Alpha 6tlg.	985			V
	١	/ersion: 1/GB		Date revised: 17.02.20	020
Substance number: 0148000000101	I-985 F	Replaces Version: -/	GB	Print date: 27.02	2.20
and open flame. No sparking particulates and spray mist a be prohibited in application a container is not a pressure ve Comply with the health and s Advice on protection again	rising from t rea. For per essel. Alway afety at wor	he application of this n sonal protection see S /s keep in containers o k laws. Do not allow to	nixture. Smo Section 8. Ne of same mate	king, eating and drinking shal ver use pressure to empty: erial as the original one.	II
Vapours are heavier than air air.		-	ours may fo	rm explosive mixtures with	
Classification of fires / tem	perature c	lass / Ignition grou	p / Dust ex	plosion class	
Classification of fires Temperature class	-	stible liquid substances	-		
7.2. Conditions for safe stora	ge, inclue	ding any incompa	tibilities		
Requirements for storage re	ooms and	vessels			
Electrical installations/working standards. Storage rooms in accordance with national reg	which filling				
Hints on storage assembly					
Store away from oxidising ag	ents, from s	trongly alkaline and st	rongly acid r	naterials.	
Further information on stor	age condi	tions			
Observe label precautions. S					
sources of heat and direct su No smoking. Prevent unautho	orised acces				ł
No smoking. Prevent unauthon kept upright to prevent leakage	orised acces				ł
No smoking. Prevent unauthor kept upright to prevent leakag 7.3. Specific end use(s)	orised acces				ł
No smoking. Prevent unauthon kept upright to prevent leakage	orised acces				1
No smoking. Prevent unautho kept upright to prevent leakag 7.3. Specific end use(s) Paint	orised acces ge.	ss. Containers which a	re opened m		1
No smoking. Prevent unauthor kept upright to prevent leakag 7.3. Specific end use(s) Paint SECTION 8: Exposure cor	orised acces ge.	ss. Containers which a	re opened m		1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters	orised acces ge.	ss. Containers which a	re opened m		1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values	orised acces ge.	ss. Containers which a	re opened m		1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol	orised acces ge. <u>ntrols/pe</u>	ss. Containers which a	re opened m		1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values	orised acces ge.	ss. Containers which a	re opened m		1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List	prised acces ge. <u>ntrols/pe</u> EH40	ss. Containers which a	re opened m		1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type	entrols/pe EH40 WEL	ersonal protect	ire opened m	nust be carefully resealed and	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol	EH40 WEL 1920	ersonal protect	ire opened m	nust be carefully resealed and	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List	EH40 WEL 1920 EH40	ersonal protect	ire opened m	nust be carefully resealed and	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type	EH40 WEL 1920 EH40 WEL	ersonal protecti mg/m³	ion 1000	nust be carefully resealed and	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List	EH40 WEL 1920 EH40	ersonal protect	ire opened m	nust be carefully resealed and	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Statue	EH40 WEL 1920 EH40 WEL 375 560	ersonal protecti mg/m³	ire opened m ion 1000 100	ppm(V)	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; St	mg/m ³ mg/m ³ mg/m ³ mg/m ³	ire opened m ion 1000 100	ppm(V)	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; St	mg/m ³ mg/m ³ mg/m ³ mg/m ³	ire opened m ion 1000 100	ppm(V)	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; St Levels (DN	mg/m ³ mg/m ³ mg/m ³ mg/m ³	ion 1000 100 150	ppm(V)	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; St _evels (DN Derived Worker	mg/m ³ mg/m ³ mg/m ³ iatus: 2011 IEL/DMEL)	ion 1000 100 150	ppm(V)	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; St _evels (DN Derived Worker Long te	mg/m ³ mg/m ³ mg/m ³ atus: 2011 IEL/DMEL) I No Effect Level (DNE rm	ion 1000 100 150	ppm(V)	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure Route of exposure	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; St _evels (DN Derived Worker Long te inhalativ	mg/m ³ mg/m ³ mg/m ³ atus: 2011 IEL/DMEL) I No Effect Level (DNE rm	ion 1000 100 150	ppm(V)	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; St _evels (DN Derived Worker Long te inhalativ	mg/m ³ mg/m ³ mg/m ³ atus: 2011 IEL/DMEL) I No Effect Level (DNE rm	ion 1000 100 150	ppm(V)	1
No smoking. Prevent unauthor kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure Route of exposure Mode of action	EH40 WEL 1920 EH40 WEL 1920 EH40 WEL 375 560 on: Sk; St _evels (DN Derived Worker Long te inhalativ System	mg/m ³ mg/m ³ mg/m ³ atus: 2011 IEL/DMEL) I No Effect Level (DNE rm ve ic effects	ion 1000 100 150	ppm(V) ppm(V)	1

Trade name: Marabu Sketch Marke	er Alpha 6t	lg. 985	
		Version: 1/GB	Date revised: 17.02.2020
Substance number: 01480000001	01-985	Replaces Version: - / GB	Print date: 27.02.20
Duration of exposure	Sho	rt term	
Route of exposure	inha	lative	
Mode of action	Loca	al effects	
Concentration		1900	mg/m³
Type of value		ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure	•	g term	
Route of exposure	dern		
Mode of action	Syst	emic effects	
Concentration		343	mg/kg/d
Type of value		ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure Route of exposure		g term lative	
Mode of action		emic effects	
Concentration	Syst	114	mg/m³
Type of value	Dori	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		rt term	
Route of exposure		lative	
Mode of action		al effects	
Concentration		950	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure	Long	g term	
Route of exposure	dern	nal	
Mode of action	Syst	emic effects	
Concentration		206	mg/kg/d
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Con	sumer	
Duration of exposure	Long	g term	
Route of exposure	oral		
Mode of action	Syst	emic effects	
Concentration		87	mg/kg/d
1-Methoxy-2-propanol			
Type of value		ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure	Acut		
Route of exposure		lative	
Mode of action Concentration	LOCa	al effects 553.5	mg/m³
		, -	
Type of value Reference group	Deri Wor	ved No Effect Level (DNEL)	
Duration of exposure		g term	
Route of exposure	dern		
Mode of action		emic effects	
Concentration	0,31	50,6	mg/person/
		- / -	d
Type of value	Der	ved No Effect Level (DNEL)	

Frada nama: Marahu Skatah Marka		10 085	
Frade name: Marabu Sketch Marke	п Арпа бі	Version: 1/GB	Marab Marab
Substance number: 01480000001	1 005	Replaces Version: -/GB	Date revised: 17.02.2020 Print date: 27.02.20
Substance number. 0146000001	71-965	Replaces Version7 GD	1 mil dato. 27.02.20
Reference group	Wor		
Duration of exposure		g term	
Route of exposure		lative	
Mode of action	Syst	emic effects	
Concentration		369	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Gen	eral Population	
Duration of exposure		g term	
Route of exposure	derr		
Mode of action	Syst	emic effects	
Concentration		18,1	mg/kg
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure		g term	
Route of exposure		lative	
Mode of action		emic effects	
Concentration	Cyc	43,9	mg/m³
	Der		
Type of value		ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure		g term	
Route of exposure	oral	amia offacta	
Mode of action	Sys	emic effects	m a // ca /d
Concentration		3,3	mg/kg/d
Predicted No Effect Conce	entration	(PNEC)	
Ethanol			
Type of value	PNE	C	
Туре	Fres	hwater	
Concentration		0,96	mg/l
Type of value	PNE		
		-	
Туре	San	water	mall
	San	0,79	mg/l
Type Concentration Type of value	PNE	0,79 C	mg/l
Type Concentration Type of value Type	PNE	0,79 C er (intermittent release)	-
Type Concentration Type of value	PNE	0,79 C	mg/l mg/l
Type Concentration Type of value Type Concentration	PNE Wat	0,79 C er (intermittent release) 2,75	-
Type Concentration Type of value Type Concentration Type of value	PNE Wat PNE	0,79 C er (intermittent release) 2,75 C	-
Type Concentration Type of value Type Concentration	PNE Wat PNE	0,79 C er (intermittent release) 2,75	-
Type Concentration Type of value Type Concentration Type of value Type Concentration	PNE Wat PNE Sew	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580	mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	PNE Wat PNE Sew PNE	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580	mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type	PNE Wat PNE Sew PNE	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580 C thwater sediment	mg/l mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	PNE Wat PNE Sew PNE	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580	mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	PNE Wat PNE Sew PNE Fres	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6	mg/l mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type	PNE Wat PNE Sew PNE Fres	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6 C ne sediment	mg/l mg/l mg/kg
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	PNE Wat PNE Sew PNE Fres	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580 C thwater sediment 3,6	mg/l mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration	PNE Wat PNE Sew PNE Fres PNE Mar	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6 C ne sediment 2,9	mg/l mg/kg
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type	PNE Wat PNE Sew PNE Fres	0,79 C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6 C ne sediment 2,9	mg/l mg/l mg/kg

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bstance number: 014800000	0101-985	Version: 1 / GB Replaces Version: - / GB	Date revised: 17.02.202 Print date: 27.02.2
1-Methoxy-2-propanol			
Type of value	PNE	С	
Туре	Fres	hwater	
Concentration		10	mg/l
Type of value	PNE	С	
Туре	Wate		
Concentration		41,6	mg/kg
Type of value	PNE	С	
Туре	Sedi	ment	
Concentration		41,6	mg/kg
Type of value	PNE	С	
Туре	Mari	ne sediment	
Concentration		4,17	mg/kg
Type of value	PNE	С	
Туре	Soil		
Concentration		2,47	mg/kg
Type of value	PNE	с	
Type		age treatment plant (STP)	
Concentration		100 · · · · · · · · · · · · · · · · · ·	mg/l
exhaust ventilation and g particulates and solvent Respiratory protection If workers are exposed t	good general vapour below o concentratio		
respirators. Full mask, fil	ter A		
Hand protection There is no one glove m	aterial or com	bination of materials that will give	e unlimited resistance to any
individual or combination			
		trile rubber gloves with textile un	dergloves are required.
Material thickness	>	0,5 mm	
Breakthrough time	<	30 min	
		er than the end use time of the pr	
I he instructions and info replacement must be fol		ueu by the glove manufacturer of	n use, storage, maintenance and
•		nd if there is any sign of damage	to the glove material
		om defects and that they are store	
			sical/ chemical damage and poor
maintenance.			
Barrier creams may help once exposure has occu		e exposed areas of the skin, they	should however not be applied
Eye protection			
· ·	igned to prote	ect against splash of liquids.	
Body protection			
Cotton or cotton/syntheti	c overalls or	coveralls are normally suitable.	
	- -		
CTION 9: Physical a	nd chem	ical properties	

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9.1. Information on basic ph	vsical ar	nd chemical pr	operties	
Form	Liquid		oportioo	
Colour	grey			
Odour	solve	nt-like		
Odour threshold				
Remarks	No da	ata available		
pH value				
Remarks	Not a	pplicable		
Melting point				
Remarks	not d	etermined		
Freezing point				
Remarks	not d	etermined		
Initial boiling point and bo	iling rang	je		
Value	appr.	78	°C	
Flash point				
Value		12	°C	
Evaporation rate (ether =	1):			
Remarks	not d	etermined		
Flammability (solid, gas) Not applicable				
Upper/lower flammability	or explos	ive limits		
Lower explosion limit	appr.		%(V)	
Upper explosion limit	appr.		%(V)	
Source	Litera	ture value		
Vapour pressure			. –	
Value	appr.	59	hPa	
Vapour density				
Remarks	not d	etermined		
Density				
Remarks	not d	etermined		
Solubility in water				
Remarks	•	ally miscible		
Partition coefficient: n-oct				
Remarks	Not a	pplicable		
Ignition temperature				
Value Source	appr. Litera	287 ature value	°C	
Efflux time				
Value Temperature	<	12 20 °C	S	
Method	DIN 5	53211 4 mm		
Explosive properties				
evaluation	no			
Oxidising properties				
evaluation	None	known		
9.2. Other information				

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		Version: 1/GB	Date revised: 17.02.2020
Substance number: 01480000001	01-985	Replaces Version: - / GB	Print date: 27.02.20
Other information			
The physical specifications	are appro	oximate values and refer to the use	ed safety relevant component(s).
SECTION 10: Stability ar	nd read	tivity	
10.1. Reactivity			
	hen stored	and handled according to prescrib	ped instructions.
10.2. Chemical stability Stable under recommender	d storage	and handling conditions (see secti	on 7).
10.3. Possibility of hazardo	us react	ions	
Keep away from oxidising a exothermic reactions.	agents, sti	rongly alkaline and strongly acid m	aterials in order to avoid
10.4. Conditions to avoid When exposed to high tem	peratures	may produce hazardous decompo	psition products.
10.5. Incompatible materials	S		
No hazardous reactions whether	hen stored	and handled according to prescrib	ped instructions.
10.6. Hazardous decomposi		oducts res - Special hazards arising from t	the substance or mixture)
	ig measur	cs - Opecial hazards ansing non r	the substance of mixture).
SECTION 11. Toxicologi	cal info	ormation	
11.1. Information on toxicol			
	logical e	effects	
11.1. Information on toxicol Acute oral toxicity Remarks	logical e Based		n criteria are not met.
11.1. Information on toxicol Acute oral toxicity	logical e Based	effects	n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp	logical e Based	effects	n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks	logical e Based	effects	n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol	Based	on available data, the classification	n criteria are not met. g/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species	Based	on available data, the classification	
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50	logical e Based ponents) rat	on available data, the classification	g/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity	logical e Based ponents) rat Based	on available data, the classificatio 5200 m on available data, the classificatio	g/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co	logical e Based ponents) rat Based	on available data, the classificatio 5200 m on available data, the classificatio	g/kg
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11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol	Based ponents) rat Based pmponen	on available data, the classification 5200 m on available data, the classification ts)	g/kg
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11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50	logical e Based ponents) rat Based ponen rabbit	on available data, the classification 5200 m on available data, the classification ts)	g/kg n criteria are not met. g/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity	logical e Based ponents) rat Based ponen rabbit	effects on available data, the classification 5200 me on available data, the classification ts) 14000 me	g/kg n criteria are not met. g/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks	logical e Based ponents) rat Based mponen rabbit	effects on available data, the classification 5200 me on available data, the classification ts) 14000 me	g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks	logical e Based ponents) rat Based mponen rabbit y Based Based	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification	g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irrita	logical e Based ponents) rat Based mponen rabbit y Based Based ation	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification	g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks	logical e Based ponents) rat Based mponen rabbit y Based Based ation irritant	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification	g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks	logical e Based ponents) rat Based mponen rabbit y Based Based ation irritant	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification	g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irrita evaluation Remarks Sensitization	logical e Based ponents) rat Based mponen rabbit y Based ation irritant The cla	effects on available data, the classification 5200 me on available data, the classification ts) 14000 me on available data, the classification on available data, the classification assification criteria are met.	g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met.
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11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks Mutagenicity	logical e Based oonents) rat Based mponen rabbit y Based ation irritant The cla Based	effects on available data, the classification 5200 me on available data, the classification ts) 14000 me on available data, the classification on available data, the classification assification criteria are met. on available data, the classification	g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met. n criteria are not met.
Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks Mutagenicity Remarks	logical e Based oonents) rat Based mponen rabbit y Based ation irritant The cla Based	effects on available data, the classification 5200 me on available data, the classification ts) 14000 me on available data, the classification on available data, the classification assification criteria are met.	g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met. n criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Co 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irrita evaluation Remarks Sensitization Remarks Mutagenicity	logical e Based ponents) rat Based mponen rabbit y Based ation irritant The cla Based Based	effects on available data, the classification 5200 me on available data, the classification ts) 14000 me on available data, the classification on available data, the classification assification criteria are met. on available data, the classification	g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met. n criteria are not met. n criteria are not met.

EC) No 1907/2006	
on: 1/GB	Marabu Date revised: 17.02.2020
aces Version: - / GB	Print date: 27.02.20
able data, the classification cr	iteria are not met.
able data, the classification cr	iteria are not met.
able data, the classification cr	iteria are not met.
teria are not met.	
ral nervous system. Symptom siness and in extreme cases, ts by absorption through the s of natural fat from the skin res he liquid splashed in the eyes sea, diarrhoea and vomiting. Iso chronic effects of compone	s and signs include headache, loss of consciousness. skin. Repeated or prolonged ulting in non-allergic contact may cause irritation and This takes into account, where ents from short-term and
self.	
additivity method of the CLP zards accordingly.	Regulation (EC) No
self.Do not allow to enter drain mation method of the CLP Re vironment.	
uciscus idus)	
mg/l	
h	
h T	
h a mg/l	
h T	
h a mg/l	
h a mg/l	
h mg/l mg/l	
h mg/l	
h mg/l mg/l	
	able data, the classification cr able data, the classification cr teria are not met. teria are not met. the as mucous membrane and r ral nervous system. Symptom siness and in extreme cases, ts by absorption through the s of natural fat from the skin res he liquid splashed in the eyes sea, diarrhoea and vomiting. so chronic effects of compone- rmal routes of exposure and o relf. additivity method of the CLP cards accordingly.

MSDS for #82325 - MA	ARABU SKETCH MAR	KER		Page 11 of
Safety data sheet in a	accordance with regu	Hation (EC) No 1907/2	2006	
Trade name: Marabu	Sketch Marker Alpha 6	Stla. 985		
		Version: 1/GB		Date revised: 17.02.2020
Substance number: 0	0148000000101-985	Replaces Version:	- / GB	Print date: 27.02.20
EC50	>	1000	mg/l	
12.2. Persistence	and degradability	/		
General inform	nation			
No data availa				
-	ity (Components)			
1-Methoxy-2-pi Value	ropanol	90	%	
Duration of tes		28 d		
evaluation		ly biodegradable (acco	rding to OECD crit	teria)
Method		9 301 F		
12.3. Bioaccumul	-			
General inform		· · · · ·		
	data available on the m			
Remarks	icient: n-octanol/wa Not	t applicable		
12.4. Mobility in s				
General inform				
	data available on the n	nixture itself.		
12.5 Results of P	PBT and vPvB ass	essment		
General inform				
	data available on the n	nixture itself.		
12.6. Other adver	se effects			
General inform				
	data available on the n	nixture itself.		
SECTION 13: Di	<u>isposal conside</u>	erations		
13.1. Waste treatr	ment methods			
Disposal recor	mmendations for th	e product		
	to enter drains or water		and a construction	
	n Waste Catalogue clas			vant national regulation. Lof as waste is
EWC waste c	ode 08 03	12* waste ink cont	aining dangerous	substances
-		-	e product code ma	ay no longer apply and the
	ode should be assigned formation contact your l			
	mmendations for pa	•		
-	-		should be obtain	ed from the relevant waste
	he classification of emp			
	ners must be scrapped containers are hazardo		number 150110)	
SECTION 14: Tr	ansport inform	ation		

Substance number: 014800	Version: 1 00000101-985 Replaces V	/GB /ersion: -/GB	Date revised: 17.02.2020 Print date: 27.02.20
	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label		8	
14.4. Packing group	11	Ш	Ш
Special provision	640D		
Limited Quantity	51		
Transport category	3		
14.5. Environmental hazards		no	
	-		-

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC

VOC (EU)

%

Other information

The product does not contain substances of very high concern (SVHC).

90

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

ade name: Marab	u Sketch Marker Alp	ha 6tlg. 985	
		Version: 1 / GB	Date revised: 17.02.2020
substance number:	0148000000101-98	5 Replaces Version: - / GB	Print date: 27.02.20
H225		ghly flammable liquid and vapour.	
H226		ammable liquid and vapour.	
H319 H336		luses serious eye irritation. Ay cause drowsiness or dizziness.	
	es listed in Chapt	-	
_	-		
Eye Irrit. 2 Flam. Liq. 2		e irritation, Category 2 ammable liquid, Category 2	
Flam. Liq. 3		ammable liquid, Category 3	
STOT SE 3		ecific target organ toxicity - single exp	posure, Category 3
Supplementa	l information		
The informa legislation. It provides g construed as The product to the suppli As the speci for ensuring The informa	tion in this Safety Da juidance on health, s s any guarantee of te should not be used er and obtaining writ ific conditions of use that the requirement tion contained in this	ct properties and shall not establish a ta Sheet is based on the present stat afety and environmental aspects of th echnical performance or suitability for for purposes other than those shown ten handling instructions. of the product are outside the supplie ts of relevant legislation are complied asafety data sheet does not constitute other health and safety legislation.	te of knowledge and current ne product and should not be particular applications. in Section 1 without first referring er's control, the user is responsible with.

NSDS for #82325 - MARABU \$ Safety data sheet in accorda	SKEICH MAR	KEK Ilation (EC) No 1907/2006	Page 🚧 🗠
rade name: Marabu Sketch I	Marker Alpha 6	6tlg. 986	
		Version: 1 / GB	Date revised: 17.02.2020
Substance number: 0148000	000101-986	Replaces Version: - / GB	Print date: 27.02.20
ECTION 1: Identific	stion of th	e substance/mixture and	d of the
company/undertaking			
1.1. Product identifier Marabu Sketch Marke		86	
1.2. Relevant identified	uses of the	substance or mixture and u	ses advised against
Use of the substance/pr Paint	reparation		
Identified Uses			
SU21		ses: Private households (= general p	ublic = consumers)
PC9a		d paints, thinners, paint removers	
1.3. Details of the suppl	ier of the sa	afety data sheet	
Address/Manufacture	er		
Marabu GmbH & Co. Asperger Strasse 4 71732 Tamm	KG		
Germany			
Telephone no.	+49-7141/69	-	
Fax no. Information provided	+49-7141/69	product safety	
by / telephone	Dopartinont		
E-mail address of person responsible for this SDS	PRSI@mara	bu.com	
	no numbor		
1.4. Emergency telepho (+49) (0)621-60-4333			
ECTION 2: Hazards	identifica	tion	
2.1. Classification of the			
Classification (Regula			
Classification (Regula		-	
Clacomeation (regula	Flam. Liq. 2	H225	
	Eye Irrit. 2	H319	
2.2. Label elements			
Labelling according	ı to regulati	on (EC) No 1272/2008	
Hazard pictograms	, c		
	>		
Signal word			
Danger			
Hazard statements	Light flow	oble liquid and veneur	
H225 H319		able liquid and vapour. ous eye irritation.	

Page 1(13)

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SDS for #82325 - MARABU afety data sheet in accord	SKEICH MARI ance with regu	९८४ lation (EC)	No 190	7/2006			Page 1
ade name: Marabu Sketch							
ade name. Marabu Sketch	Marker Alpha 6	Version:	1/0	2		Date revised:	
					D		ate: 27.02.2020
ubstance number: 014800	0000101-986	Replace	sversio	on: -/G	D	Flint da	ale. 27.02.20
P101				e produc	t container	or label at hand.	
P102 P210	Keep out of re			oc coor	ka opon flr	ames and other ignit	ion
F210	sources. No s		n sunat	es, span	ks, open na	antes and other ignit	
P264.1	Wash hands	thoroughly a	after ha	ndling.			
P280 P305+P351+P338						otection / face protection / face protection / face protection	
1 303+1 331+1 330	lenses, if pres					minutes. Remove c	onact
P501.9	Dispose of co					e.	
.3. Other hazards							
No special hazards h	ave to be menti	oned.					
ECTION 3: Compos	sition/infor	mation o	on ing	gredie	ents		
.2. Mixtures							
Hazardous ingredier	nts						
Ethanol							
CAS No.	64-17-5						
EINECS no.	200-578-6	40.40					
Registration no. Concentration	01-21194576 >=	50	<	100	%		
					70		
Classification (Regul	ation (EC) No. 1 Flam. Liq. 2	272/2008)	H225				
	Eye Irrit. 2		H319				
Concentration limits	(Regulation (EC) Eye Irrit. 2) No. 1272/2 H319		50 %			
1-Methoxy-2-propand			-	/-			
CAS No.	107-98-2						
EINECS no.	203-539-1						
Registration no. Concentration	01-21194574 >=	35-35 10	<	20	%		
	-	-		20	70		
Classification (Regul	ation (EC) No. 1 STOT SE 3	272/2008)	H336				
	Flam. Liq. 3		H226				
ECTION 4: First aid							
.1. Description of first	aid measure	es					
General information							
In all cases of doubt, to an unconscious pe							y mouth
After inhalation							
Remove to fresh air, artificial respiration.	keep patient wa	rm and at re	est. If br	eathing i	is irregular	or stopped, adminis	ter
After skin contact							
Remove contaminate cleanser. Do NOT us			oughly w	ith soap	and water	or use recognised s	kin
• • · · · ·							
After eye contact							

MSDS for #82325 - MARABU SKETC	CH MARKER
Safety data sheet in accordance w	

Trade name: Marabu Sketch Marker Alpha 6tlg. 986

Version: 1 / GB

Substance number: 0148000000101-986

Date revised: 17.02.2020 Print date: 27.02.20

ad

minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Replaces Version: - / GB

4.2. Most important symptoms and effects, both acute and delayed Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks

CONTRACT CONTRACT OF CONTRACT.	H MARKE	२ on (EC) No 1907/2006		
Frade name: Marabu Sketch Marker				Marabe
		Version: 1/GB		Date revised: 17.02.2020
Substance number: 0148000000101	-986	Replaces Version: - / G	В	Print date: 27.02.20
and open flame. No sparking particulates and spray mist ar be prohibited in application ar container is not a pressure ve Comply with the health and sa	rising from rea. For pe essel. Alwa	the application of this mit rsonal protection see See ys keep in containers of s	xture. Smo ction 8. Ne same mate	oking, eating and drinking shall ever use pressure to empty: erial as the original one.
Advice on protection agains	st fire and	d explosion		
Vapours are heavier than air air air	and may s	pread along floors. Vapo	urs may fo	rm explosive mixtures with
Classification of fires / temp	perature d	class / Ignition group	/ Dust ex	plosion class
Classification of fires Temperature class	B (Combu T3	stible liquid substances)		
7.2. Conditions for safe stora	ge, inclu	ding any incompati	bilities	
Requirements for storage re	ooms and	d vessels		
Electrical installations/working standards. Storage rooms in a accordance with national regu	which filling			
Hints on storage assembly				
Store away from oxidising ag	ents, from	strongly alkaline and stro	ngly acid r	materials.
Further information on stor	age cond	itions		
Observe label precautions. So sources of heat and direct sur	nlight. Kee	p container tightly closed		
		ess. Containers which are	opened n	nust be carefully resealed and
No smoking. Prevent unauthon kept upright to prevent leakage		ess. Containers which are	opened n	nust be carefully resealed and
kept upright to prevent leakag		ess. Containers which are	opened n	nust be carefully resealed and
kept upright to prevent leakag		ess. Containers which are	opened n	nust be carefully resealed and
kept upright to prevent leakag 7.3. Specific end use(s) Paint	ge.			nust be carefully resealed and
kept upright to prevent leakag 7.3. Specific end use(s) Paint SECTION 8: Exposure cor	ge.			nust be carefully resealed and
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters	ge.			nust be carefully resealed and
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values	ge.			nust be carefully resealed and
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol	^{ge.} ntrols/p			nust be carefully resealed and
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List	ge. htrols/p EH40			nust be carefully resealed and
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol	^{ge.} ntrols/p			
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type	pe. ntrols/p EH40 WEL	ersonal protectic	<u>on</u>	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value	pe. ntrols/p EH40 WEL	ersonal protectic	<u>on</u>	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List	e. htrols/p EH40 WEL 1920 EH40	ersonal protectic	<u>on</u>	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type	EH40 WEL 1920 EH40 WEL	<mark>ersonal protectic</mark> mg/m³	2 1000	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value	EH40 WEL 1920 EH40 WEL 375	<mark>ersonal protectic</mark> mg/m³ mg/m³	200 1000 100	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit	EH40 WEL 1920 EH40 WEL 375 560	<mark>ersonal protectic</mark> mg/m³ mg/m³ mg/m³	2 1000	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S	ersonal protectio mg/m³ mg/m³ status: 2011	200 1000 100	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S	ersonal protectio mg/m³ mg/m³ status: 2011	200 1000 100	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure corr 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatic Derived No/Minimal Effect L Ethanol	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S _evels (D	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL)	200 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure corr 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S Levels (Di Derive	ersonal protectic mg/m ³ mg/m ³ status: 2011 NEL/DMEL) d No Effect Level (DNEL)	200 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure corr 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S .evels (Di Derive Worke	ersonal protectic mg/m ³ mg/m ³ status: 2011 NEL/DMEL) d No Effect Level (DNEL)	200 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure corr 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S .evels (Di Derive Worke Long te	ersonal protectic mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm	200 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure corr 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S .evels (Di Derive Worke Long to inhalat	ersonal protectic mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm ive	200 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure Route of exposure	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S .evels (Di Derive Worke Long to inhalat	ersonal protectic mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm	200 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure Route of exposure Mode of action Concentration	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S evels (DI Derive Worke Long te inhalat Systen	ersonal protectic mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm ive nic effects 950	200 1000 100 150	ppm(V) ppm(V) ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure Route of exposure Mode of action	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S evels (DI Derive Worke Long te inhalat Systen	ersonal protectic mg/m ³ mg/m ³ itatus: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm ive nic effects 950 d No Effect Level (DNEL)	200 1000 100 150	ppm(V) ppm(V) ppm(V)

ade name: Marabu Sketch Marke	er Alpha 6t	la, 986	
		Version: 1/GB	Date revised: 17.02.2020
ubstance number: 014800000010	01-986	Replaces Version: - / GB	Print date: 27.02.2
Duration of exposure	Sho	rt term	
Route of exposure		lative	
Mode of action	Loca	al effects	
Concentration		1900	mg/m³
Type of value		ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure		g term	
Route of exposure	dern		
Mode of action	Syst	emic effects	
Concentration		343	mg/kg/d
Type of value		ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		g term	
Route of exposure		lative	
Mode of action	Syst	emic effects	
Concentration		114	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure	Sho	rt term	
Route of exposure	inha	lative	
Mode of action	Loca	al effects	
Concentration		950	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure	Long	g term	
Route of exposure	dern	nal	
Mode of action	Syst	emic effects	
Concentration		206	mg/kg/d
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		g term	
Route of exposure	oral		
Mode of action	Syst	emic effects	
Concentration	-	87	mg/kg/d
1-Methoxy-2-propanol			
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure	Acut		
Route of exposure	inha	lative	
Mode of action	Loca	al effects	
Concentration		553,5	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Wor	()	
Duration of exposure	Long	g term	
Route of exposure	dern		
Mode of action	Syst	emic effects	
Concentration	-	50,6	mg/person/
			d
Type of value	Deri	ved No Effect Level (DNEL)	

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rade name: Marabu Sketch Marker	Alpha 6t	-	Mara Doto rovipod: 17.02.202	
		Version: 1 / GB	Date revised: 17.02.2020 Print date: 27.02.20	
Substance number: 0148000000101	-986	Replaces Version: - / GB		
Reference group	Wor	ker		
Duration of exposure	Long	g term		
Route of exposure	inha	lative		
Mode of action	Syst	emic effects		
Concentration		369	mg/m³	
Type of value	Deri	ved No Effect Level (DNEL)		
Reference group	Gen	eral Population		
Duration of exposure	Long	g term		
Route of exposure	dern	nal		
Mode of action	Syst	emic effects		
Concentration	-	18,1	mg/kg	
Type of value	Deri	ved No Effect Level (DNEL)		
Reference group		eral Population		
Duration of exposure		g term		
Route of exposure		lative		
Mode of action		emic effects		
Concentration	Gyst	43,9	mg/m³	
	Dori	und No Effort Loval (DNEL)		
Type of value		ved No Effect Level (DNEL)		
Reference group		eral Population		
Duration of exposure		g term		
Route of exposure	oral			
Mode of action	Syst	emic effects	<i>n i i i</i>	
Concentration		3,3	mg/kg/d	
Predicted No Effect Concen	tration	(PNEC)		
Ethanol				
Type of value	PNE	C		
Type		hwater		
Concentration		0,96	mg/l	
Type of value	PNE	i C		
Type		water		
Concentration	Oan	0,79	mg/l	
Concentration		0,79	ing/i	
Type of value	PNE	-		
Type Concentration	wat	er (intermittent release) 2,75	mg/l	
Type of value	PNE			
Туре	Sew	age treatment plant (STP)		
Concentration		580	mg/l	
Type of value	PNE	C		
Туре	Fres	hwater sediment		
		3,6	mg/kg	
Concentration	PNE	C		
		ne sediment		
Type of value		2,9	mg/kg	
	Man	1 -		
Type of value Type Concentration				
Type of value Type Concentration Type of value	PNE			
Type of value Type Concentration			mg/kg	

	MARABU SKETCH In accordance with bu Sketch Marker A	regulation	1 (EC) No 1907/2006 86	Page **
	0148000000101-	Ve	ersion: 1 / GB eplaces Version: - / GB	Date revised: 17.02.202 Print date: 27.02.2
4 Mothewy 2	meneral			
1-Methoxy-2 Type of value		PNEC		
Туре		Freshwa		
Concentrati	ion	1	10	mg/l
Type of val	ue	PNEC		
Туре		Water		
Concentrati	ion	2	11,6	mg/kg
Type of val	ue	PNEC		
Туре	•	Sedimen		
Concentrati	ION	2	11,6	mg/kg
Type of val	ue	PNEC		
Type	ion	Marine s		~~~~
Concentrati	ion	2	1,17	mg/kg
Type of val	ue	PNEC		
Type	ion	Soil) 47	~~~~
Concentrati	ion	2	2,47	mg/kg
Type of val	ue	PNEC		
Туре		Sewage	traatmant plant (CTD)	
-	ontrols		treatment plant (STP) 00	mg/l
2. Exposure c Exposure co Provide ade exhaust ver	controls ontrols equate ventilation. N ntilation and good g	Where reaso	noo onably practicable this sh action. If these are not su	nould be achieved by the use of local ufficient to maintain concentrations of
2. Exposure c Exposure co Provide ade exhaust ver particulates	controls ontrols equate ventilation. V ntilation and good g and solvent vapou	Where reaso	noo onably practicable this sh action. If these are not su	nould be achieved by the use of local
2. Exposure c Exposure co Provide add exhaust ver particulates Respiratory If workers a	controls ontrols equate ventilation. No ntilation and good g and solvent vapou protection are exposed to cond	Where reas leneral extra r below the	noo onably practicable this sh action. If these are not su OEL, suitable respirator	nould be achieved by the use of local ufficient to maintain concentrations of
2. Exposure c Exposure co Provide add exhaust ver particulates Respiratory If workers a respirators.	controls ontrols equate ventilation. Ventilation and good g s and solvent vapou protection are exposed to conc Full mask, filter A	Where reas leneral extra r below the	noo onably practicable this sh action. If these are not su OEL, suitable respirator	nould be achieved by the use of local ifficient to maintain concentrations of y protection must be worn.
2. Exposure c Exposure co Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o	controls ontrols equate ventilation. Notest intilation and good go and solvent vapou protection are exposed to conce Full mask, filter A ction one glove material or combination of ch	Where reaso leneral extra r below the centrations a or combina emicals.	noo ponably practicable this sh action. If these are not su OEL, suitable respirator above the exposure limit ation of materials that will	hould be achieved by the use of local ifficient to maintain concentrations of y protection must be worn. they must use appropriate, certified give unlimited resistance to any
2. Exposure c Exposure co Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o For prolong	controls ontrols equate ventilation. No ntilation and good g s and solvent vapou protection are exposed to conce Full mask, filter A ction o one glove material or combination of ch ged or repeated han	Where reason leneral extra r below the centrations a or combina emicals. Indling nitrile	noo ponably practicable this sh action. If these are not su OEL, suitable respiratory above the exposure limit ation of materials that will rubber gloves with textile	hould be achieved by the use of local ufficient to maintain concentrations of y protection must be worn. they must use appropriate, certified
2. Exposure c Exposure co Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o	controls ontrols equate ventilation. Notest and solvent vapous protection are exposed to conce Full mask, filter A ction o one glove material or combination of ch ged or repeated han ckness	Where reaso leneral extra r below the centrations a or combina emicals.	noo ponably practicable this sh action. If these are not su OEL, suitable respirator above the exposure limit ation of materials that will	hould be achieved by the use of local ifficient to maintain concentrations of y protection must be worn. they must use appropriate, certified give unlimited resistance to any
2. Exposure c Exposure co Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o For prolong Material thi Breakthroug The breaktf	controls ontrols equate ventilation. Notest and solvent vapous protection are exposed to conce Full mask, filter A ction o one glove material or combination of changed or repeated han ckness gh time hrough time must be tions and informatic	Where rease peneral extra r below the centrations a emicals. emicals. diling nitrile > 0,5 < 30 e greater th on provided	onably practicable this sh action. If these are not su OEL, suitable respirator above the exposure limit ation of materials that will rubber gloves with textile mm min an the end use time of th	hould be achieved by the use of local ufficient to maintain concentrations of y protection must be worn. they must use appropriate, certified give unlimited resistance to any e undergloves are required.
2. Exposure c Exposure con Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o For prolong Material thi Breakthroug The breakth The instruct replacement Gloves sho Always ens	controls ontrols equate ventilation. We ntilation and good g s and solvent vapou protection are exposed to cond Full mask, filter A ction one glove material or combination of ch ged or repeated have ckness gh time hrough time must be tions and information of must be followed. Full be replaced reg sure that gloves are	Where rease leneral extra r below the centrations a or combina emicals. Idling nitrile 0,5 30 e greater th on provided jularly and in free from d	above the exposure limit rubber gloves with textile min an the end use time of th by the glove manufactur there is any sign of dam efects and that they are s	hould be achieved by the use of local ufficient to maintain concentrations of y protection must be worn. they must use appropriate, certified give unlimited resistance to any e undergloves are required.
2. Exposure c Exposure co Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o For prolong Material this Breakthroug The breaktf The instruc replacemer Gloves sho Always ens The perform maintenance	controls ontrols equate ventilation. We ntilation and good g and solvent vapour protection are exposed to cond Full mask, filter A filter A ction one glove material or combination of ch ged or repeated han ckness gh time chrough time must be tions and information of must be followed. wild be replaced reg sure that gloves are mance or effectivence.	Where rease leneral extra r below the centrations a or combina emicals. Idling nitrile > 0,5 < 30 e greater th on provided uplarly and if free from d ess of the g	above the exposure limit rubber gloves with textile min an the end use time of th by the glove manufactur there is any sign of dam efects and that they are s love may be reduced by	hould be achieved by the use of local ifficient to maintain concentrations of y protection must be worn. they must use appropriate, certified give unlimited resistance to any e undergloves are required. he product. er on use, storage, maintenance and hage to the glove material. stored and used correctly.
2. Exposure c Exposure co Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o For prolong Material this Breakthroug The breaktf The instruc replacemer Gloves sho Always ens The perform maintenance	controls equate ventilation. We ntilation and good g and solvent vapour protection are exposed to cond Full mask, filter A ction one glove material or combination of ch ged or repeated have ckness gh time chrough time must be tions and information of must be followed. wild be replaced reg sure that gloves are mance or effectivence. ams may help to pro- sure has occurred.	Where rease leneral extra r below the centrations a or combina emicals. Idling nitrile > 0,5 < 30 e greater th on provided uplarly and if free from d ess of the g	above the exposure limit rubber gloves with textile min an the end use time of th by the glove manufactur there is any sign of dam efects and that they are s love may be reduced by	hould be achieved by the use of local ifficient to maintain concentrations of y protection must be worn. they must use appropriate, certified give unlimited resistance to any e undergloves are required. he product. er on use, storage, maintenance and hage to the glove material. stored and used correctly. physical/ chemical damage and poor
2. Exposure c Exposure c Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o For prolong Material thi Breakthroug The breakth The instruct replacement Gloves sho Always ens The perform maintenand Barrier creat once expos	controls equate ventilation. We ntilation and good g s and solvent vapour protection are exposed to cond Full mask, filter A etion one glove material or combination of ch ged or repeated have ckness gh time hrough time must be followed. Sure that gloves are nance or effectivence can smay help to pro- sure has occurred. On eyewear designed	Where rease leneral extra r below the centrations a or combina emicals. Idling nitrile 0,5 30 e greater th on provided ularly and it free from d ess of the g otect the exp	above the exposure limit rubber gloves with textile min an the end use time of th by the glove manufactur there is any sign of dam efects and that they are s love may be reduced by	hould be achieved by the use of local ifficient to maintain concentrations of y protection must be worn. they must use appropriate, certified give unlimited resistance to any e undergloves are required. he product. er on use, storage, maintenance and hage to the glove material. stored and used correctly. physical/ chemical damage and poor
2. Exposure c Exposure con Provide add exhaust ver particulates Respiratory If workers a respirators. Hand protec There is no individual o For prolong Material thi Breakthroug The breakth The instruct replacement Gloves sho Always ens The perform maintenance Barrier creat once exposs Eye protection Use safety	controls equate ventilation. We ntilation and good go and solvent vapour protection are exposed to cond Full mask, filter A fition one glove material or combination of ch ged or repeated han ckness gh time hrough time must be followed. Sure that gloves are nance or effectivent cases may help to pro- sure has occurred. On eyewear designed for the state of the state of the state state of the st	Where rease leneral extra r below the centrations a or combinate emicals. Idling nitrile of 0,5 of 30 e greater th on provided jularly and if free from d ess of the g otect the exp to protect ar	above the exposure limit min an the end use time of the by the glove manufactur there is any sign of dam effects and that they are s love may be reduced by posed areas of the skin, the	hould be achieved by the use of local officient to maintain concentrations of y protection must be worn. they must use appropriate, certified give unlimited resistance to any e undergloves are required. the product. er on use, storage, maintenance and hage to the glove material. stored and used correctly. physical/ chemical damage and poor they should however not be applied

Item Numbers: 82325-1002

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Frade name: Marabu Sketch Marker	· Alpha 6tl	a 986				
Trade flame. Marabu Sketch Marker	Αιρπά οι	Version: 1/	GB		Date revised:	
Substance number: 014800000010	1-986	Replaces Version: - / GB			Print date: 27.02.20	
9.1. Information on basic phy	vsical a	nd chemical	properties			
Form	, Liqui		• •			
Colour	grey					
Odour	solve	ent-like				
Odour threshold						
Remarks	No d	ata available				
pH value						
Remarks	Not a	applicable				
Melting point						
Remarks	not d	letermined				
Freezing point						
Remarks	not d	letermined				
Initial boiling point and boi	iling rang	ge				
Value	appr	. 78	0	С		
Flash point						
Value		12	٥	С		
Evaporation rate (ether = 1):					
Remarks	-	letermined				
Flammability (solid, gas) Not applicable						
Upper/lower flammability o	r explos	ive limits				
Lower explosion limit	appr		0,	6(V)		
Upper explosion limit	appr			6(V)		
Source	Litera	ature value		、 ,		
Vapour pressure						
Value	appr	. 59	h	Pa		
Vapour density						
Remarks	not d	letermined				
Density						
Remarks	not d	letermined				
Solubility in water						
Remarks	partia	ally miscible				
Partition coefficient: n-octa	anol/wat	er				
Remarks		applicable				
Ignition temperature						
Value	appr	. 287	0	С		
Source		ature value		-		
Efflux time						
Value	<	12	s			
Temperature		-	С			
Method	DIN	53211 4 mm				
Explosive properties						
evaluation	no					
Oxidising properties						
evaluation	None	e known				

MSDS for #82325 - MARABU SKET(Safety data sheet in accordance w		KER	Page 😚 🗠
Sarety data Sheet in debordance w			
Frade name: Marabu Sketch Marke	er Alpha 6	ötlg. 986	Maraha
		Version: 1 / GB	Date revised: 17.02.2020
Substance number: 014800000010	01-986	Replaces Version: - / GB	Print date: 27.02.20
Other information			
The physical specifications	are appro	oximate values and refer to the use	ed safety relevant component(s).
SECTION 10: Stability an	d read	tivity	
10.1. Reactivity			
-	en storec	and handled according to prescrib	bed instructions.
10.2. Chemical stability Stable under recommended	l storage	and handling conditions (see section	on 7).
10.3. Possibility of hazardou	is react	tions	
		rongly alkaline and strongly acid m	aterials in order to avoid
10.4. Conditions to avoid When exposed to high temp	peratures	may produce hazardous decompo	osition products.
10.5. Incompatible materials			
No hazardous reactions whe	en storec	and handled according to prescrib	ped instructions.
10.6. Hazardous decomposition		oducts res - Special hazards arising from t	the substance or mixture).
		opeolar nazarao anoing nome	
	-		,
ECTION 11: Toxicologic	-	ormation	
	cal info		
11.1. Information on toxicolo	cal info		
11.1. Information on toxicolo Acute oral toxicity	<u>cal inf</u> ogical e	effects	
11.1. Information on toxicolo Acute oral toxicity Remarks	cal infe ogical e Based		
11.1. Information on toxicolo Acute oral toxicity	cal infe ogical e Based	effects	
11.1. Information on toxicolo Acute oral toxicity Remarks	cal infe ogical e Based	effects	
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species	cal infe ogical e Based	effects on available data, the classification	n criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50	cal infe ogical e Based onents)	effects on available data, the classification	
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity	cal infe ogical e Based onents) rat	effects on available data, the classification 5200 mg	n criteria are not met. g/kg
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50	cal infe ogical e Based onents) rat	effects on available data, the classification	n criteria are not met. g/kg
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity	cal infe ogical e Based onents) rat Based	on available data, the classification 5200 mg on available data, the classification	n criteria are not met. g/kg
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	cal infe ogical e Based onents) rat Based	on available data, the classification 5200 mg on available data, the classification	n criteria are not met. g/kg
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol Species	cal infe ogical e Based onents) rat Based	effects on available data, the classification 5200 mg on available data, the classification ts)	n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol	cal infe ogical e Based onents) rat Based nponen	effects on available data, the classification 5200 mg on available data, the classification ts)	n criteria are not met. g/kg
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol Species	cal infe ogical e Based onents) rat Based mponen rabbit	effects on available data, the classification 5200 mg on available data, the classification ts)	n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol Species LD50	cal infe ogical e Based onents) rat Based mponen rabbit	effects on available data, the classification 5200 mg on available data, the classification ts)	n criteria are not met. g/kg n criteria are not met. g/kg
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity	cal infe ogical e Based onents) rat Based mponen rabbit	on available data, the classification 5200 mg on available data, the classification ts) 14000 mg	n criteria are not met. g/kg n criteria are not met. g/kg
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks	cal infe ogical e Based onents) rat Based mponen rabbit	on available data, the classification 5200 mg on available data, the classification ts) 14000 mg	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation	cal infe ogical e Based onents) rat Based nponen rabbit Based Based	effects on available data, the classification 5200 mg on available data, the classification ts) 14000 mg on available data, the classification	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks	cal infe ogical e Based onents) rat Based nponen rabbit Based Based tion irritant	effects on available data, the classification 5200 mg on available data, the classification ts) 14000 mg on available data, the classification on available data, the classification	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation	cal infe ogical e Based onents) rat Based nponen rabbit Based Based tion irritant	effects on available data, the classification 5200 mg on available data, the classification ts) 14000 mg on available data, the classification on available data, the classification	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization	cal infe ogical e Based onents) rat Based nponen rabbit Based Based tion irritant The cla	effects on available data, the classification 5200 mg on available data, the classification ts) 14000 mg on available data, the classification on available data, the classification assification criteria are met.	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met.
 11.1. Information on toxicold Acute oral toxicity Remarks Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks 	cal infe ogical e Based onents) rat Based nponen rabbit Based Based tion irritant The cla	effects on available data, the classification 5200 mg on available data, the classification ts) 14000 mg on available data, the classification on available data, the classification	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met.
11.1. Information on toxicold Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks Mutagenicity	cal infe ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data, the classification 5200 mg on available data, the classification ts) 14000 mg on available data, the classification on available data, the classification assification criteria are met. on available data, the classification	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met.
Remarks Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritation Remarks Sensitization Remarks Mutagenicity Remarks	cal infe ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data, the classification 5200 mg on available data, the classification ts) 14000 mg on available data, the classification on available data, the classification assification criteria are met.	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met.
 11.1. Information on toxicold Acute oral toxicity Remarks Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks Mutagenicity 	cal info ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based Based	effects on available data, the classification 5200 mg on available data, the classification ts) 14000 mg on available data, the classification on available data, the classification assification criteria are met. on available data, the classification	n criteria are not met. g/kg n criteria are not met. g/kg n criteria are not met. n criteria are not met. n criteria are not met. n criteria are not met.

MSDS for #82325 - MARABU SKE	TCH MARI	KFR			Page 😤 🕂 T
Safety data sheet in accordance	with regu	lation (EC) No 1907/2 (06	
Trade name: Marabu Sketch Mark	er Alnha 6	tla are			
Trade flame. Marabu Sketch Mark		-	1/GB		Marabu Date revised: 17.02.2020
Substance number: 0148000000	01-986		es Version:	- / GB	Print date: 27.02.20
Carcinogenicity					
Remarks	Based	on availab	le data, the o	classification cri	teria are not met.
Specific Target Organ To	xicity (S	ΓΟΤ)			
Single exposure					
Remarks	Based	on availab	le data, the o	classification cri	teria are not met.
Repeated exposure Remarks	Racad	on availab	lo data tho	lassification ori	teria are not met.
Aspiration hazard	Daseu	UT availab	le uala, life (tena are not met.
Based on available data, t	he classific	ation crite	ria are not m	et.	
Experience in practice					
limit may result in adverse and adverse effects on kid dizziness, fatigue, muscula Solvents may cause some contact with the mixture m dermatitis and absorption	health effe ney, liver a ar weaknes of the abo ay cause r through the ion may ca diate effec	ects such a and central ass, drowsir ove effects emoval of e skin. The use nause ts and also	as mucous m nervous systems and in e by absorptio natural fat fro liquid splash a, diarrhoea o chronic effe	embrane and re tem. Symptom xtreme cases, I n through the s om the skin res ned in the eyes and vomiting.	kin. Repeated or prolonged ulting in non-allergic contact may cause irritation and This takes into account, where ents from short-term and
Other information					
There are no data availabl The mixture has been ass 1272/2008 and classified f	essed follo or toxicolo	wing the a gical hazai	dditivity meth		Regulation (EC) No
SECTION 12: Ecological	Inform	<u>nation</u>			
12.1. Toxicity					
General information					
There are no data availabl mixture has been assesse and is not classified as da	d following	the summ	ation metho		s or water courses. The egulation (EC) No 1272/2008
Fish toxicity (Component	ts)				
1-Methoxy-2-propanol					
Species LC0	golden >	orfe (Leuc 4600	siscus idus)	mg/l	
Duration of exposure	-	96	h	<u>9</u> /1	
Daphnia toxicity (Compo	nents)				
1-Methoxy-2-propanol					
Species	Daphn	ia magna			
EC50 Duration of exposure		23300 48	h	mg/l	
Algae toxicity (Compone	nts)	-			
1-Methoxy-2-propanol	-				
Species		desmus		-	
EC50 Duration of exposure	>	1000 168	h	mg/l	
Bacteria toxicity (Compo	nents)	100			
1-Methoxy-2-propanol					
Species	activat	ed sludge			

MSDS for #82325 - M	ARABU SKETCH	MARK	ER				Page Ad of
Safety data sheet in	accordance with	regul	ation (EC) No 1	1 907/2	006		
Trade name: Marabu	u Sketch Marker A	lpha 6t	la. 986				
			Version: 1/	GB		Date revise	ed: 17.02.2020
Substance number:	0148000000101-9	986	Replaces Ve	rsion:	- / GB	Prir	nt date: 27.02.20
EC50	>	>	1000		m	ng/l	
12.2. Persistence	e and degrada	bility					
General inform	mation						
No data avai							
-	lity (Componen	its)					
1-Methoxy-2- p ∀alue	propanol		90		%	<u>.</u>	
Duration of te			28 d				
evaluation			biodegradable	(accor	ding to OE	CD criteria)	
Method		DECD	301 F				
12.3. Bioaccumu	-	al					
General inform							
	data available on						
Remarks	ficient: n-octan		applicable				
12.4. Mobility in s	soil						
General inform							
	data available on	the mi	xture itself.				
12.5. Results of I	PBT and vPvB	asse	essment				
General inform		4000	oomone				
	data available on	the mi	xture itself.				
12.6. Other adver	rse effects						
General inform							
	data available on	the mi	xture itself.				
SECTION 13: D	<u>isposal con</u>	side	<u>rations</u>				
13.1. Waste treat	ment method	S					
Disposal reco	mmendations f	for the	product				
	to enter drains or					h and a set of the set of	and a Cara
						h relevant national re sposed of as waste is	gulation.
EWC waste of	code (08 03 1	2* waste in	k conta	aining dang	jerous substances	
-				waste	product co	ode may no longer ap	ply and the
	code should be as formation contact	0		oritv.			
	mmendations f	-		J			
•		•		advice	should be	obtained from the rele	evant waste
	the classification c						
	iners must be scra containers are ha:				umber 150)110)	
. tot omptiou							
SECTION 14: T	ransport inf	orma	ation				

Substance number: 014800	Version: 1 00000101-986 Replaces V	/ GB /ersion: - / GB	Date revised: 17.02.2020 Print date: 27.02.20
	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	П	П	11
Special provision	640D		
Limited Quantity	51		
Transport category	3		
14.5. Environmental hazards	_	no	

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

voc

VOC (EU)

%

Other information

The product does not contain substances of very high concern (SVHC).

89

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

-		gulation (EC) No 1907/2006	
ade name: Marab	u Sketch Marker Alpha	-	Marab
		Version: 1/GB	Date revised: 17.02.2020
ubstance number:	0148000000101-986	Replaces Version: - / GB	Print date: 27.02.20
H225	High	ly flammable liquid and vapour.	
H226		nmable liquid and vapour.	
H319		ses serious eye irritation.	
H336	•	cause drowsiness or dizziness.	
-	es listed in Chapte		
Eye Irrit. 2		irritation, Category 2	
Flam. Liq. 2 Flam. Liq. 3		nmable liquid, Category 2 nmable liquid, Category 3	
STOT SE 3		cific target organ toxicity - single e	exposure Category 3
		cine target organ toxicity - single e	exposure, category 5
Supplementa		the previous version of the safety	data abaat ara markad with: ***
construed as The product to the suppli As the speci for ensuring The informa	s any guarantee of tec should not be used for er and obtaining writte fic conditions of use o that the requirements tion contained in this s	n handling instructions.	or particular applications. n in Section 1 without first referring lier's control, the user is responsible ed with.

MSDS for #82325 - MARABU	SKETCH MARK	(ER		Page 🔭 1
Safety data sheet in accorda	ince with regul	ation (EC) No 1907/	2006	
Trade name: Marabu Sketch	Marker Alpha 6	tlg. 987		
	·	Version: 1/GB		Date revised: 17.02.2020
Substance number: 0148000	000101-987	Replaces Version:	- / GB	Print date: 27.02.20
SECTION 1: Identifica	ation of the	e substance/m	ixture and	l of the
company/undertaking				
1.1. Product identifier				
Marabu Sketch Marke	er Alpha 6tlg. 98	57		
1.2. Relevant identified	uses of the	substance or mi	xture and us	ses advised against
Use of the substance/p	reparation			
Paint				
Identified Uses SU21	Consumerus	es: Private household	ds (- general p	ublic – consumers)
PC9a		paints, thinners, pain		
1.3. Details of the suppl	ier of the sa	fety data sheet		
Address/Manufacture	er	-		
Marabu GmbH & Co.	KG			
Asperger Strasse 4 71732 Tamm				
Germany	+49-7141/691	0		
Telephone no. Fax no.	+49-7141/691	-		
Information provided	Department p	roduct safety		
by / telephone E-mail address of	PRSI@marab	ou.com		
person responsible for this SDS				
	no numbor			
1.4. Emergency telepho (+49) (0)621-60-4333				
		_		
SECTION 2: Hazards	identificat	<u>ion</u>		
2.1. Classification of the				
Classification (Regula				
Classification (Regula	Ition (EC) No. 1 Flam. Liq. 2	272/2008) H225		
	Eye Irrit. 2	H319		
2.2. Label elements				
Labelling according	g to regulation	on (EC) No 1272/	2008	
Hazard pictograms				
Signal word				
Danger				
Hazard statements				
H225		able liquid and vapou	r.	
H319 Precautionary statem		us eye irritation.		
Fiecautionaly Statem				

Page 1(13)

SDS for #82325 - MARABU afety data sheet in accord	ance with regu	lation (EC)	No 190	7/2006			
ade name: Marabu Sketch	Marker Alpha 6	tlg. 987					\mathbb{N}
		Version:	1 / GE	3		Date revised:	Marab 17.02.2020
ubstance number: 014800	0000101-987	Replaces	s Versio	on: -/G	В	Print da	ate: 27.02.20
P101	If medical adv	vice is need	ed, hav	e produc	t container	or label at hand.	
P102 P210	Keep out of r			es spar	ke open fl	ames and other ignit	ion
1210	sources. No s	smoking.		<i>i</i>	ks, open na	ames and other ignit	
P264.1 P280	Wash hands					otection / face protect	otion
P305+P351+P338						minutes. Remove c	
DE01.0	lenses, if pres					to	
P501.9	Dispose of co	ontents / cor	itamera	as proble	matic was	le.	
.3. Other hazards No special hazards h	ave to be menti	oned.					
ECTION 3: Compos	sition/infor	mation o	on ing	gredie	<u>nts</u>		
.2. Mixtures							
Hazardous ingredier	nts						
Ethanol	04 47 5						
CAS No. EINECS no.	64-17-5 200-578-6						
Registration no.	01-21194576	10-43					
Concentration	>=	50	<	100	%		
Classification (Regula	ation (EC) No. 1	272/2008)					
	Flam. Liq. 2	,	H225				
	Eye Irrit. 2		H319				
Concentration limits	Regulation (EC) Eye Irrit. 2	No. 1272/2 (H319		50 %			
1-Methoxy-2-propano							
CAS No. EINECS no.	107-98-2 203-539-1						
Registration no.	01-21194574	35-35					
Concentration	>=	10	<	20	%		
Classification (Regula	ation (EC) No. 1	272/2008)					
	STOT SE 3		H336				
	Flam. Liq. 3		H226				
ECTION 4: First aid	measures	-					
.1. Description of first	aid measure	es					
General information							
In all cases of doubt,							y mouth
to an unconscious pe After inhalation	erson. If unconso	cious place	in recov	ery posit	lion and se	ek medical advice.	
Remove to fresh air, artificial respiration.	keep patient wa	rm and at re	est. If br	eathing i	s irregular	or stopped, adminis	ter
After skin contact							
Remove contaminate cleanser. Do NOT us			ughly w	vith soap	and water	or use recognised s	kin
After eye contact							
						he eyelids apart for a	

MSDS for #82325 - MARABU SKETCH MARKER	
Safety data sheet in accordance with regulation (EC)	

Trade name: Marabu Sketch Marker Alpha 6tlg. 987

Version: 1/GB

Substance number: 0148000000101-987

Date revised: 17.02.2020 Print date: 27.02.20

ad

minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Replaces Version: - / GB

4.2. Most important symptoms and effects, both acute and delayed Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks

Safety data sheet in	MARABU SKETCH	IVIARNER				age 💁 🕂
-	n accordance with	regulation	(EC) No 1907/2	006		
Frade name: Marab	ou Sketch Marker Al	pha 6tlg. 98	37			ΔV
		-	rsion: 1/GB		Date revised: 17	Marabu .02.2020
Substance number:	0148000000101-9		places Version:	- / GB	Print date:	
particulates be prohibite container is Comply with Advice on pr	and spray mist aris of in application area not a pressure vess the health and safe rotection against	ing from the a. For perso sel. Always ety at work fire and e	e application of th onal protection se keep in containe laws. Do not allo explosion	his mixture. Smo ee Section 8. Ne rs of same mate w to enter drains	act. Avoid the inhalatior king, eating and drinking ver use pressure to emp rial as the original one. s or water courses. m explosive mixtures w	g shall oty:
air.						
Classificatio Classificatio Temperatur		(Combusti	ss / Ignition gi ble liquid substar	-	plosion class	
7.2. Conditions	for safe storage	ə, includi	ng any incom	npatibilities		
	ts for storage roc			-		
Electrical in standards.	stallations/working r	naterials m nich filling o	ust comply with t		technological safety a conducting floor. Store	in
Hints on stor	rage assembly					
Store away	from oxidising agen	ts, from str	ongly alkaline an	d strongly acid n	naterials.	
				a dry, well ventil		
No smoking kept upright 7.3. Specific en	 Prevent unauthoris to prevent leakage 	sed access		losed. Keep awa	ay from sources of ignition nust be carefully reseale	
No smoking kept upright 7.3. Specific en Paint	g. Prevent unauthoris to prevent leakage d use(s)	sed access	. Containers whic	losed. Keep awa ch are opened m		
No smoking kept upright 7.3. Specific en Paint SECTION 8: Ex	Prevent unauthoris to prevent leakage d use(s) xposure cont	sed access	. Containers whic	losed. Keep awa ch are opened m		
No smoking kept upright 7.3. Specific en Paint SECTION 8: Ex	Prevent unauthoris to prevent leakage d use(s) xposure cont	sed access	. Containers whic	losed. Keep awa ch are opened m		
No smoking kept upright 7.3. Specific en Paint SECTION 8: Ex	p. Prevent unauthoris to prevent leakage d use(s) xposure cont ameters	sed access	. Containers whic	losed. Keep awa ch are opened m		
No smoking kept upright 7.3. Specific end Paint SECTION 8: Ex 8.1. Control par Exposure lin Ethanol List Type	p. Prevent unauthoris to prevent leakage d use(s) xposure cont ameters	rols/per EH40 WEL	. Containers whic	losed. Keep awa ch are opened m ection	ust be carefully reseale	
No smoking kept upright 7.3. Specific end Paint SECTION 8: E2 8.1. Control par Exposure lin Ethanol List Type Value	g. Prevent unauthoris to prevent leakage d use(s) <u>xposure cont</u> ameters nit values	rols/per	. Containers whic	losed. Keep awa ch are opened m		
No smoking kept upright 7.3. Specific end Paint SECTION 8: Ex 8.1. Control par Exposure lin Ethanol List Type	p. Prevent unauthoris to prevent leakage d use(s) <u>xposure cont</u> ameters nit values	rols/per EH40 WEL	. Containers whic	losed. Keep awa ch are opened m ection	ust be carefully reseale	
No smoking kept upright 7.3. Specific end Paint SECTION 8: E2 8.1. Control par Exposure lin List Type Value Status: 201 1-Methoxy-2- List Type Value Short term of	9. Prevent unauthoris to prevent leakage d use(s) xposure cont ameters nit values 1 •propanol	EH40 WEL 1920 EH40 WEL 375 560	. Containers whic sonal prote mg/m ³ mg/m ³ mg/m ³	losed. Keep awa ch are opened m ection	ust be carefully reseale	
No smoking kept upright 7.3. Specific end Paint SECTION 8: E2 8.1. Control par Exposure lin List Type Value Status: 201 1-Methoxy-2- List Type Value Short term of Skin resorp	 prevent unauthoris to prevent leakage d use(s) xposure cont ameters hit values 1 propanol exposure limit tion / sensibilisation	EH40 WEL 1920 EH40 WEL 375 560 Sk; Stat	. Containers whic sonal prote mg/m³ mg/m³ us: 2011	losed. Keep awa ch are opened m ection 1000 100	ppm(V)	
No smoking kept upright 7.3. Specific end Paint SECTION 8: E2 8.1. Control par Exposure lin List Type Value Status: 201 1-Methoxy-2- List Type Value Short term of Skin resorp Derived No/M	9. Prevent unauthoris to prevent leakage d use(s) xposure cont ameters nit values 1 •propanol	EH40 WEL 1920 EH40 WEL 375 560 Sk; Stat	. Containers whic sonal prote mg/m³ mg/m³ us: 2011	losed. Keep awa ch are opened m ection 1000 100	ppm(V)	
No smoking kept upright 7.3. Specific end Paint SECTION 8: E2 8.1. Control par Exposure lin List Type Value Status: 201 1-Methoxy-2- List Type Value Short term of Skin resorp Derived No/M Ethanol Type of valu Reference of Duration of Route of ex	 Prevent unauthoris Prevent leakage d use(s) xposure continues ameters nit values propanol exposure limit tion / sensibilisation: Ainimal Effect Leignoup exposure posure 	EH40 WEL 1920 EH40 WEL 375 560 Sk; Stat vels (DNE Derived N Worker Long term inhalative	. Containers which sonal prote mg/m ³ mg/m ³ us: 2011 L/DMEL) No Effect Level (E	losed. Keep awa ch are opened m ection 1000 100 150	ppm(V)	
No smoking kept upright 7.3. Specific end Paint SECTION 8: E2 8.1. Control par Exposure lin List Type Value Status: 201 1-Methoxy-2 List Type Value Short term of Skin resorp Derived No/M Ethanol Type of valu Reference of Duration of	 Prevent unauthoris Prevent leakage d use(s) xposure continate ameters ameters hit values propanol exposure limit tion / sensibilisation: Ainimal Effect Leage group exposure posure posure ion 	EH40 WEL 1920 EH40 WEL 375 560 Sk; Stat vels (DNE Derived N Worker Long term inhalative Systemic	. Containers which sonal prote mg/m ³ mg/m ³ us: 2011 L/DMEL) No Effect Level (E	ection 2000 1000 1000 100 150 200EL)	ppm(V)	

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rade name: Marabu Sketch Marke	er Alpha 6t	g. 987 Version: 1/GB	Mara
			Date revised: 17.02.202
ubstance number: 01480000001	01-987	Replaces Version: - / GB	Print date: 27.02.2
Duration of exposure		t term	
Route of exposure		ative	
Mode of action	Loca	I effects	
Concentration		1900	mg/m³
Type of value		ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure Route of exposure	dern	l term	
Mode of action		emic effects	
Concentration	Cyst	343	mg/kg/d
	_		
Type of value		ved No Effect Level (DNEL)	
Reference group Duration of exposure		sumer 1 term	
Route of exposure		ative	
Mode of action		emic effects	
Concentration	e yet	114	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		t term	
Route of exposure	inha	ative	
Mode of action	Loca	I effects	
Concentration		950	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Con	sumer	
Duration of exposure		term	
Route of exposure	dern		
Mode of action Concentration	Syst	emic effects 206	mg/kg/d
Concentration		200	hig/kg/d
Type of value		ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		i term	
Route of exposure Mode of action	oral	omic offocts	
Concentration	Syst	emic effects 87	mg/kg/d
1-Methoxy-2-propanol	- ·		
Type of value		ved No Effect Level (DNEL)	
Reference group Duration of exposure	Wor Acut		
Route of exposure		e ative	
Mode of action		l effects	
Concentration	2000	553,5	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Wor	, , , , , , , , , , , , , , , , , , ,	
Duration of exposure		term	
Route of exposure	dern	nal	
Mode of action	Syst	emic effects	
Concentration		50,6	mg/person/
			d
Type of value	Deri	ved No Effect Level (DNEL)	

	with regulation (EC) No 1907/2006	
rade name: Marabu Sketch Marke	er Alpha 6tlg. 987	Marabi
	Version: 1 / GB	Date revised: 17.02.2020
Substance number: 01480000001	01-987 Replaces Version: - / GB	Print date: 27.02.20
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	369	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	18,1	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
	inhalative	
Route of exposure		
Mode of action	Systemic effects	
Concentration	43,9	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration		mg/kg/d
Concentration	3,3	mg/kg/d
Predicted No Effect Conc	entration (PNEC)	
Ethanol		
Type of value	PNEC	
Туре	Freshwater	
Concentration	0,96	mg/l
Type of value	PNEC	
Type of value Type	PNEC Saltwater	
Type of value Type Concentration		mg/l
Type Concentration	Saltwater	mg/l
Type Concentration Type of value	Saltwater 0,79 PNEC	mg/l
Type Concentration	Saltwater 0,79	mg/l mg/l
Type Concentration Type of value Type Concentration	Saltwater 0,79 PNEC Water (intermittent release) 2,75	-
Type Concentration Type of value Type Concentration Type of value	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC	-
Type Concentration Type of value Type Concentration	Saltwater 0,79 PNEC Water (intermittent release) 2,75	-
Type Concentration Type of value Type Concentration Type of value Type Concentration	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580	mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580 PNEC	mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment	mg/l mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580 PNEC	mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC	mg/l mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC Marine sediment	mg/l mg/l mg/kg
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC	mg/l mg/l
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC Marine sediment	mg/l mg/l mg/kg
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration	Saltwater 0,79 PNEC Water (intermittent release) 2,75 PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC Marine sediment 2,9	mg/l mg/l mg/kg

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DS for #82325 - MARABU SKET(ety data sheet in accordance w de name: Marabu Sketch Marke	rith regulation (EC) No 1907/2006	Page **
	Version: 1/GB	Date revised: 17.02.202
ostance number: 014800000010	1-987 Replaces Version: - / 0	GB Print date: 27.02.2
1-Methoxy-2-propanol		
Type of value	PNEC	
Type Concentration	Freshwater 10	mg/l
Type of value	PNEC	
Туре	Water	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type	Sediment	malka
Concentration	41,6	mg/kg
Type of value	PNEC	
Type Concentration	Marine sediment 4,17	mg/kg
		myrky
Type of value	PNEC	
Type Concentration	Soil	malka
Concentration	2,47	mg/kg
Type of value	PNEC	
Type Concentration	Sewage treatment plant (STP) 100) mg/l
exhaust ventilation and good	d general extraction. If these are no	s should be achieved by the use of local t sufficient to maintain concentrations of
	our below the OEL, suitable respira	atory protection must be worn.
Respiratory protection		
If workers are exposed to co respirators. Full mask, filter		mit they must use appropriate, certified
		mit they must use appropriate, certified
respirators. Full mask, filter Hand protection There is no one glove mater individual or combination of For prolonged or repeated h Material thickness Breakthrough time	A rial or combination of materials that chemicals. andling nitrile rubber gloves with te > 0,5 mm < 30 min	will give unlimited resistance to any xtile undergloves are required.
respirators. Full mask, filter Hand protection There is no one glove mater individual or combination of For prolonged or repeated h Material thickness Breakthrough time The breakthrough time mus The instructions and informative replacement must be followed	A rial or combination of materials that chemicals. andling nitrile rubber gloves with ter > 0,5 mm < 30 min t be greater than the end use time c ation provided by the glove manufac	will give unlimited resistance to any xtile undergloves are required. of the product. cturer on use, storage, maintenance and
respirators. Full mask, filter Hand protection There is no one glove mater individual or combination of For prolonged or repeated h Material thickness Breakthrough time The breakthrough time must The instructions and informative replacement must be followed Gloves should be replaced in Always ensure that gloves a	A rial or combination of materials that chemicals. andling nitrile rubber gloves with te > 0,5 mm < 30 min t be greater than the end use time of ation provided by the glove manufac ed. regularly and if there is any sign of our our free from defects and that they a	will give unlimited resistance to any xtile undergloves are required. of the product. cturer on use, storage, maintenance and damage to the glove material.
respirators. Full mask, filter Hand protection There is no one glove materi individual or combination of For prolonged or repeated h Material thickness Breakthrough time The breakthrough time must The instructions and informa replacement must be follow Gloves should be replaced of Always ensure that gloves a The performance or effective maintenance.	A tial or combination of materials that chemicals. andling nitrile rubber gloves with ter > 0,5 mm < 30 min t be greater than the end use time of ation provided by the glove manufaced. regularly and if there is any sign of of the from defects and that they a eness of the glove may be reduced protect the exposed areas of the sk	will give unlimited resistance to any xtile undergloves are required. of the product. cturer on use, storage, maintenance and damage to the glove material. are stored and used correctly.
respirators. Full mask, filter Hand protection There is no one glove materindividual or combination of For prolonged or repeated h Material thickness Breakthrough time The breakthrough time must The instructions and informa replacement must be follow Gloves should be replaced of Always ensure that gloves a The performance or effective maintenance. Barrier creams may help to once exposure has occurred	A tial or combination of materials that chemicals. andling nitrile rubber gloves with ter > 0,5 mm < 30 min t be greater than the end use time of ation provided by the glove manufaced. regularly and if there is any sign of of re free from defects and that they a eness of the glove may be reduced protect the exposed areas of the sk	will give unlimited resistance to any xtile undergloves are required. of the product. cturer on use, storage, maintenance and damage to the glove material. the stored and used correctly. by physical/ chemical damage and poor in, they should however not be applied
respirators. Full mask, filter Hand protection There is no one glove materi individual or combination of For prolonged or repeated h Material thickness Breakthrough time The breakthrough time must The instructions and informa replacement must be follow Gloves should be replaced of Always ensure that gloves a The performance or effective maintenance. Barrier creams may help to once exposure has occurred Eye protection Use safety eyewear designed	A tial or combination of materials that chemicals. andling nitrile rubber gloves with ter > 0,5 mm < 30 min t be greater than the end use time of ation provided by the glove manufaced. regularly and if there is any sign of of the from defects and that they a eness of the glove may be reduced protect the exposed areas of the sk	will give unlimited resistance to any xtile undergloves are required. of the product. cturer on use, storage, maintenance and damage to the glove material. the stored and used correctly. by physical/ chemical damage and poor in, they should however not be applied
respirators. Full mask, filter Hand protection There is no one glove material individual or combination of For prolonged or repeated h Material thickness Breakthrough time The breakthrough time must The instructions and information replacement must be followed Gloves should be replaced of Always ensure that gloves at The performance or effective maintenance. Barrier creams may help to once exposure has occurred Eye protection Use safety eyewear designed	A tial or combination of materials that chemicals. andling nitrile rubber gloves with ter > 0,5 mm < 30 min t be greater than the end use time of ation provided by the glove manufaced. regularly and if there is any sign of of re free from defects and that they a eness of the glove may be reduced protect the exposed areas of the sk	will give unlimited resistance to any xtile undergloves are required. of the product. cturer on use, storage, maintenance and damage to the glove material. the stored and used correctly. by physical/ chemical damage and poor in, they should however not be applied ls.

SECTION 9: Physical and chemical properties

Item Numbers: 82325-1002

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rade	e name: Marabu Sketch Marker A	lpha 6tlo	. 987			
		.price ettig	Version: '	1 / GB		Date revised: 17.02.2020
Subs	stance number: 0148000000101-9	987		/ersion: -/GB		Print date: 27.02.20
9.1.	Information on basic phys			al properties		
	Form	Liquid				
	Colour Odour	grey solver	t-liko			
	Odour threshold	301701	it-like			
	Remarks	No da	ta available			
		no ua	ta avaliable			
	pH value	Notor	nliachla			
	Remarks	not ap	plicable			
	Melting point		4 a maa iyo a al			
	Remarks	not de	termined			
	Freezing point					
	Remarks		termined			
	Initial boiling point and boilin				<u> </u>	
	Value	appr.	78		°C	
	Flash point					
	Value		12		°C	
	Evaporation rate (ether = 1) :					
	Remarks	not de	termined			
	Flammability (solid, gas)					
	Not applicable					
	Upper/lower flammability or o	explosi	ve limits			
	Lower explosion limit	appr.	1,5		%(V)	
	Upper explosion limit Source	appr.	15 ure value		%(V)	
		Litera	ule value			
	Vapour pressure Value	appr	59		hPa	
		appr.	59		пга	
	Vapour density Remarks	not do	tormined			
		not de	termined			
	Density		4 a maa iyo a al			
	Remarks	not de	termined			
	Solubility in water					
	Remarks		ly miscible			
	Partition coefficient: n-octan					
	Remarks	Not ap	plicable			
	Ignition temperature					
	Value Source	appr. Literat	287 ure value		°C	
	Efflux time					
	Value	<	12		s	
	Temperature		20	°C		
	Method	DIN 5	3211 4 mm			
	Explosive properties evaluation	no				
		10				
	Oxidising properties evaluation	None	known			
	Other information	none	NIOWI			

MSDS for #82325 - MARABU SKET	CH MAR		Page -
Safety data sheet in accordance v	with regu	Hation (EC) No 1907/2005	
Trade name: Marabu Sketch Marke	er Alpha 6	Stlg. 987	
		Version: 1 / GB	Marabu Date revised: 17.02.2020
Substance number: 01480000001	01-987	Replaces Version: - / GB	Print date: 27.02.20
Other information			
The physical specifications	are appro	oximate values and refer to the use	ed safety relevant component(s).
SECTION 40. Stability on	d roop	41.714.7	
SECTION 10: Stability an	<u>iu reac</u>		
10.1. Reactivity No hazardous reactions wh	en stored	and handled according to prescri	bed instructions.
10.2. Chemical stability Stable under recommended	d storage	and handling conditions (see sect	ion 7).
10.3. Possibility of hazardou	us react	tions	
		rongly alkaline and strongly acid m	naterials in order to avoid
10.4. Conditions to avoid When exposed to high temp	peratures	may produce hazardous decomp	osition products.
10.5. Incompatible materials	5		
No hazardous reactions wh	en storec	and handled according to prescri	bed instructions.
10.6. Hazardous decomposi See chapter 5.2 (Firefightin		res - Special hazards arising from	the substance or mixture).
SECTION 11: Toxicologi	ool inf	ormation	
SECTION 11: Toxicologi	cal info	ormation	
11.1. Information on toxicol	ogical e		on criteria are not met.
11.1. Information on toxicol Acute oral toxicity	ogical e Based	effects	on criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp	ogical e Based	effects	on criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks	ogical e Based	effects	on criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol	ogical e Based onents)	effects on available data, the classificatio	on criteria are not met. ng/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species	ogical e Based onents)	effects on available data, the classificatio	
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50	ogical e Based onents) rat	effects on available data, the classificatio	ng/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity	ogical e Based onents) rat Based	on available data, the classification 5200 m on available data, the classification	ng/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com	ogical e Based onents) rat Based	on available data, the classification 5200 m on available data, the classification	ng/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	ogical e Based onents) rat Based	on available data, the classification 5200 m on available data, the classification	ng/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol	ogical e Based onents) rat Based mponen	effects on available data, the classificatio 5200 m on available data, the classificatio ts)	ng/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Compo 1-Methoxy-2-propanol Species	ogical e Based onents) rat Based mponen rabbit	effects on available data, the classificatio 5200 m on available data, the classificatio ts)	ng/kg on criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species LD50	ogical e Based onents) rat Based mponen rabbit	effects on available data, the classificatio 5200 m on available data, the classificatio ts)	ng/kg on criteria are not met. ng/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity	ogical e Based onents) rat Based mponen rabbit	on available data, the classification 5200 m on available data, the classification ts) 14000 m	ng/kg on criteria are not met. ng/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks	ogical e Based onents) rat Based mponen rabbit	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met.
 11.1. Information on toxicola Acute oral toxicity Remarks Acute oral toxicity (Comparison on toxicity (Comparison on toxicity) Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Comparison on toxicity) Remarks Acute dermal toxicity (Comparison on toxicity) Species LD50 Acute dermal toxicity (Comparison on toxicity) Remarks Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks 	ogical e Based onents) rat Based mponen rabbit Based Based	on available data, the classification 5200 m on available data, the classification ts) 14000 m	ng/kg on criteria are not met. ng/kg on criteria are not met.
 11.1. Information on toxicola Acute oral toxicity Remarks Acute oral toxicity (Comparison on toxicity (Comparison on toxicity) Species LD50 Acute dermal toxicity (Comparison on toxicity) Remarks Acute dermal toxicity (Comparison on toxicity) Remarks Acute dermal toxicity (Comparison on toxicity) Remarks Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritation 	ogical e Based onents) rat Based mponen rabbit Based tion	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met.
 11.1. Information on toxicola Acute oral toxicity Remarks Acute oral toxicity (Comparison on toxicity (Comparison on toxicity) Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Comparison on toxicity) Remarks Acute dermal toxicity (Comparison on toxicity) Species LD50 Acute dermal toxicity (Comparison on toxicity) Remarks Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks 	ogical e Based onents) rat Based mponen rabbit Based Based tion irritant	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met.
 11.1. Information on toxicola Acute oral toxicity Remarks Acute oral toxicity (Comparison on the second of the second of	ogical e Based onents) rat Based mponen rabbit Based Based tion irritant	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met.
 11.1. Information on toxicola Acute oral toxicity Remarks Acute oral toxicity (Comparison on the second of the second of	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla	effects on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification assification criteria are met.	ng/kg on criteria are not met. ng/kg on criteria are not met. on criteria are not met.
 11.1. Information on toxicola Acute oral toxicity Remarks Acute oral toxicity (Comparison on the second of the second of	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met. on criteria are not met.
 11.1. Information on toxicola Acute oral toxicity Remarks Acute oral toxicity (Comparison on the second of the seco	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification assification criteria are met. on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met. on criteria are not met.
Remarks Acute oral toxicity (Composition of the second sec	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification assification criteria are met.	ng/kg on criteria are not met. ng/kg on criteria are not met. on criteria are not met.
 11.1. Information on toxicola Acute oral toxicity Remarks Acute oral toxicity (Comparison of the second of	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based Based	on available data, the classification 5200 m on available data, the classification ts) 14000 m on available data, the classification on available data, the classification assification criteria are met. on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met. on criteria are not met.

MSDS for #82325 - MARABU SKET	CH MAR	KER			Page 😤 📬 T
Safety data sheet in accordance v	vith regu	lation (EC) No 1907/2 (906	
Trade name: Marabu Sketch Marke	er Alpha 6	ötlg. 987			
		Version	: 1/GB		Date revised: 17.02.2020
Substance number: 01480000010	01-987	Replace	es Version:	- / GB	Print date: 27.02.20
Carcinogenicity					
Remarks	Based	on availab	le data, the o	classification crit	teria are not met.
Specific Target Organ Tox	icity (S	ΤΟΤ)			
Single exposure	Deser		La stata de a s		
Remarks	Based	on availab	le data, the d	classification cri	teria are not met.
Repeated exposure Remarks	Based	on availab	le data, the d	classification crit	teria are not met.
Aspiration hazard					
Based on available data, th	e classifio	cation criter	ia are not m	et.	
Experience in practice Exposure to component sol					
dizziness, fatigue, muscular Solvents may cause some contact with the mixture ma dermatitis and absorption th	ey, liver a r weaknes of the abo y cause r nrough the on may ca liate effect	and central ss, drowsin ove effects removal of e skin. The ause nause cts and also	nervous sys ess and in e by absorptio natural fat fro liquid splash a, diarrhoea chronic effe	tem. Symptoms xtreme cases, le n through the sloom the skin resu ned in the eyes and vomiting. T ects of compone	s and signs include headache, oss of consciousness. kin. Repeated or prolonged ulting in non-allergic contact may cause irritation and This takes into account, where ents from short-term and
Other information					,
There are no data available The mixture has been asse 1272/2008 and classified fo	ssed follo	wing the a	dditivity meth		Regulation (EC) No
SECTION 12: Ecological	<u>inforn</u>	<u>nation</u>			
12.1. Toxicity					
General information					
There are no data available mixture has been assessed and is not classified as dan	following	g the summ	ation metho		s or water courses. The egulation (EC) No 1272/2008
Fish toxicity (Components	5)				
1-Methoxy-2-propanol		,			
Species LC0	golden >	orfe (Leuc 4600	iscus idus)	mg/l	
Duration of exposure	-	96	h		
Daphnia toxicity (Compon	ents)				
1-Methoxy-2-propanol					
Species EC50	Daphn	ia magna 23300		mg/l	
Duration of exposure		23300 48	h	mg/l	
Algae toxicity (Componen	ts)				
1-Methoxy-2-propanol					
Species		odesmus		~~~~//	
EC50 Duration of exposure	>	1000 168	h	mg/l	
Bacteria toxicity (Compon	ents)	-			
1-Methoxy-2-propanol	,				
Species	activat	ed sludge			

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Safety data sheet in	accordance wit	h regu	lation (EC) No 1907/2	2006	
Trade name: Marabu	Sketch Marker	Alpha 6	ötlg. 987		
			Version: 1 / GB		Maraba Date revised: 17.02.2020
Substance number:	0148000000101	-987	Replaces Version:	- / GB	Print date: 27.02.20
EC50		>	1000	mg/l	
12.2. Persistence	e and degrad	ability	1		
General infor					
No data avai		nto)			
-	lity (Compone	nts)			
1-Methoxy-2- p Value	propanoi		90	%	
Duration of te	est		28 d		
evaluation Method		Readil OECD	y biodegradable (acco	ording to OECD cri	iteria)
			301 F		
12.3. Bioaccumu General infori	-	ai			
	data available o	n the m	nixture itself.		
	ficient: n-octa				
Remarks		Not	applicable		
12.4. Mobility in	soil				
General inform					
There are no	data available o	n the m	nixture itself.		
12.5. Results of I	PBT and vPv	B ass	essment		
General inform					
There are no	data available o	n the m	nixture itself.		
12.6. Other adve	rse effects				
General infor	mation				
There are no	data available o	n the m	nixture itself.		
SECTION 13: D	isposal cou	heide	rations		
13.1. Waste treat			o product		
=	mmendations to enter drains o		-		
				ordance with relev	vant national regulation.
		-	sification of this produ		
EWC waste o		08 03		taining dangerous	substances ay no longer apply and the
	code should be a				ay no longer apply and the
For further in	formation contac	t your l	ocal waste authority.		
•	ommendations				
0	ation provided in the classification			e should be obtain	ed from the relevant waste
			or reconditioned.		
			us waste (waste code	number 150110).	
		f	-1:		
SECTION 14: T	ransport in	rorm	ation		

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Substance number: 014800	Version: 0000101-987 Replaces	1 / GB Version: - / GB	Marab Date revised: 17.02.2020 Print date: 27.02.20
	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	11	Ш	Ш
Special provision	640D		
Limited Quantity	51		
Transport category	3		
14.5. Environmental hazards		no	
	-		_

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

voc

VOC (EU)

%

Other information

The product does not contain substances of very high concern (SVHC).

90

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

	ARABU SKETCH MAR		Page 💁
barety data sheet in	accordance with regul	lation (EC) No 1907/2006	
rade name: Marabu	u Sketch Marker Alpha 6	0	Marab
	0148000000101 087	Version: 1 / GB Replaces Version: - / GB	Date revised: 17.02.2020 Print date: 27.02.20
Substance number:	0148000000101-987	Replaces version7 GB	1 mil date. 27.02.20
H225		flammable liquid and vapour.	
H226 H319		able liquid and vapour. s serious eye irritation.	
H336		use drowsiness or dizziness.	
CLP categorie	es listed in Chapter 3	•	
Eye Irrit. 2		tation, Category 2	
Flam. Liq. 2		able liquid, Category 2	
Flam. Liq. 3 STOT SE 3		able liquid, Category 3 c target organ toxicity - single expos	sure Category 3
Supplemental		e target organ toxicity single expe	Sale, Calegory C
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ade name: Marabu Sketch	Marker Alpha 6	tlg. 988					\mathbb{N}
		Version:	1 / GE	3		Date revised:	Marabo 17.02.2020
ubstance number: 014800	0000101-988	Replace	s Versio	n: -/G	B	Print da	ate: 27.02.20
P101				e produc	t containe	or label at hand.	
P102 P210		om heat, ho		es, spar	ks, open fla	ames and other ignit	ion
P264.1 P280	sources. No s Wash hands	thoroughly a	after ha	ndling.		otection / face prote	otion
P305+P351+P338		Rinse cautio	usly wi	h water	for several	minutes. Remove c	
P501.9	Dispose of co					te.	
.3. Other hazards No special hazards h	ave to be menti	oned.					
ECTION 3: Compos			on ind	aredie	ents		
.2. Mixtures				1.0010			
Hazardous ingredier	nts						
Ethanol							
CAS No.	64-17-5						
EINECS no. Registration no.	200-578-6 01-21194576	10.42					
Concentration	>=	50	<	100	%		
Classification (Regul	ation (EC) No. 1	272/2008)					
Classification (regul	Flam. Liq. 2	272/2000)	H225				
	Eye Irrit. 2		H319				
Concentration limits	(Regulation (EC Eye Irrit. 2	No. 1272/2 (H319		50 %			
1-Methoxy-2-propano							
CAS No.	107-98-2						
EINECS no.	203-539-1	25.25					
Registration no. Concentration	01-21194574 >=	35-35 10	<	20	%		
Classification (Regul	ation (EC) No. 1	272/2008)					
Classification (Regul	STOT SE 3	212/2000)	H336				
	Flam. Liq. 3		H226				
ECTION 4: First aid	measures						
.1. Description of first							
General information							
In all cases of doubt,	or when sympto	oms persist,	seek m	edical at	ttention. No	ever give anything by	y mouth
to an unconscious pe	erson. If unconso	cious place	in recov	ery posi	tion and se	ek medical advice.	
After inhalation Remove to fresh air,	keep patient wa	rm and at re	est. If br	eathing	is irregular	or stopped, adminis	ter
artificial respiration. After skin contact							
Remove contaminate cleanser. Do NOT us			ughly w	rith soap	and water	or use recognised s	kin
After eye contact							

MSDS for #82325 - MARABU SKETC	CH MARKER
Safety data sheet in accordance w	

Trade name: Marabu Sketch Marker Alpha 6tlg. 988

Version: 1/GB

Substance number: 0148000000101-988

Date revised: 17.02.2020 Print date: 27.02.20

age

minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Replaces Version: - / GB

4.2. Most important symptoms and effects, both acute and delayed Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks

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Safety data sheet in accordance v	vitin regulatio	m (EC) NO 1907/20			
Frade name: Marabu Sketch Marke	er Alpha 6tlg.	988			ΔV
	١	/ersion: 1 / GB		Date revise	d: 17.02.2020
Substance number: 014800000010	01-988 F	Replaces Version:	- / GB	Print	date: 27.02.20
and open flame. No sparkin particulates and spray mist be prohibited in application container is not a pressure Comply with the health and	arising from t area. For per vessel. Alway	he application of thi sonal protection see /s keep in container	is mixture. Smo e Section 8. Net s of same mate	king, eating and o ver use pressure rial as the origina	lrinking shall to empty: l one.
Advice on protection again	nst fire and	explosion			
Vapours are heavier than ai air.	ir and may sp	read along floors. ∖	/apours may for	m explosive mixt	ures with
Classification of fires / ten	nperature c	lass / Ignition gro	oup / Dust ex	plosion class	
Classification of fires Temperature class	B (Combus T3	stible liquid substan	ces)		
7.2. Conditions for safe stor	age, inclu	ding any incom	patibilities		
Requirements for storage	rooms and	vessels			
Electrical installations/worki standards. Storage rooms in accordance with national re	n which filling				
Hints on storage assembly	У				
Store away from oxidising a	igents, from s	trongly alkaline and	d strongly acid n	naterials.	
Further information on sto	orage condi	tions			
Observe label precautions.	Store betwee	n 15 and 30 °C in a	dry wall vantil	ated place away f	rom
sources of heat and direct s No smoking. Prevent unaut	sunlight. Keep horised acces	container tightly clo	osed. Keep awa	ay from sources o	f ignition.
sources of heat and direct s	sunlight. Keep horised acces	container tightly clo	osed. Keep awa	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unauti kept upright to prevent leak 7.3. Specific end use(s)	sunlight. Keep horised acces	container tightly clo	osed. Keep awa	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unaut kept upright to prevent leak	sunlight. Keep horised acces	container tightly clo	osed. Keep awa	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unauti kept upright to prevent leak 7.3. Specific end use(s) Paint	sunlight. Keep horised acces age.	o container tightly closs. Containers which	osed. Keep awa h are opened m	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unauti kept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co	sunlight. Keep horised acces age.	o container tightly closs. Containers which	osed. Keep awa h are opened m	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unaut kept upright to prevent leak 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters	sunlight. Keep horised acces age.	o container tightly closs. Containers which	osed. Keep awa h are opened m	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values	sunlight. Keep horised acces age.	o container tightly closs. Containers which	osed. Keep awa h are opened m	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol	sunlight. Keep horised acces age. ontrols/pe	o container tightly closs. Containers which	osed. Keep awa h are opened m	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values	sunlight. Keep horised acces age.	o container tightly closs. Containers which	osed. Keep awa h are opened m	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value	sunlight. Keep horised acces age. ontrols/pe	o container tightly closs. Containers which	osed. Keep awa h are opened m	ay from sources o	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011	enlight. Keep horised acces age. ontrols/pe EH40 WEL	o container tightly closs. Containers which	osed. Keep awa h are opened m <u>ction</u>	ay from sources o oust be carefully re	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol	eunlight. Keep horised acces age. EH40 WEL 1920	o container tightly closs. Containers which	osed. Keep awa h are opened m <u>ction</u>	ay from sources o oust be carefully re	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List	enlight. Keep horised acces age. EH40 WEL 1920 EH40	o container tightly closs. Containers which	osed. Keep awa h are opened m <u>ction</u>	ay from sources o oust be carefully re	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type	EH40 WEL 1920 EH40 WEL 1920	o container tightly closs. Containers which	osed. Keep awa h are opened m <u>ction</u> 1000	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List	enlight. Keep horised acces age. EH40 WEL 1920 EH40	o container tightly closs. Containers which	osed. Keep awa h are opened m <u>ction</u>	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Statue	EH40 WEL 1920 EH40 WEL 375 560	mg/m ³	osed. Keep awa h are opened m <u>ction</u> 1000 100	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit	EH40 WEL 1920 EH40 WEL 375 560 tion: Sk; St	mg/m ³ mg/m ³ mg/m ³ mg/m ³	osed. Keep awa h are opened m <u>ction</u> 1000 100	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisat	EH40 WEL 1920 EH40 WEL 375 560 tion: Sk; St	mg/m ³ mg/m ³ mg/m ³ mg/m ³	osed. Keep awa h are opened m <u>ction</u> 1000 100	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisa	EH40 WEL 1920 EH40 WEL 375 560 tion: Sk; St Levels (DN	mg/m ³ mg/m ³ mg/m ³ mg/m ³	osed. Keep awa h are opened m ction 1000 100 150	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisa Derived No/Minimal Effect	EH40 WEL 1920 EH40 WEL 375 560 tion: Sk; St Levels (DN	mg/m ³ mg/m ³ mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m	osed. Keep awa h are opened m ction 1000 100 150	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisat Derived No/Minimal Effect Ethanol Type of value Reference group Duration of exposure	EH40 WEL 1920 EH40 WEL 375 560 tion: Sk; St Levels (DN Derived	mg/m ³ mg/m ³ mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m	osed. Keep awa h are opened m ction 1000 100 150	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisat Derived No/Minimal Effect Ethanol Type of value Reference group Duration of exposure Route of exposure	EH40 WEL 1920 EH40 WEL 375 560 tion: Sk; St Levels (DN Derived Worker Long te inhalati	mg/m ³ mg/m ³ mg/m ³ mg/m ³ mg/m ³ atus: 2011 IEL/DMEL)	osed. Keep awa h are opened m ction 1000 100 150	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisat Derived No/Minimal Effect Ethanol Type of value Reference group Duration of exposure Route of exposure Mode of action	EH40 WEL 1920 EH40 WEL 375 560 tion: Sk; St Levels (DN Derived Worker Long te inhalati	mg/m ³ mg/m ³ mg/m ³ mg/m ³ atus: 2011 IEL/DMEL) I No Effect Level (D rm ve ic effects	osed. Keep awa h are opened m 1000 100 150 NEL)	ppm(V) ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisat Derived No/Minimal Effect Ethanol Type of value Reference group Duration of exposure Route of exposure	EH40 WEL 1920 EH40 WEL 375 560 tion: Sk; St Levels (DN Derived Worker Long te inhalati	mg/m ³ mg/m ³ mg/m ³ mg/m ³ mg/m ³ atus: 2011 IEL/DMEL)	osed. Keep awa h are opened m 1000 100 150 NEL)	ppm(V)	f ignition.
sources of heat and direct s No smoking. Prevent unautikept upright to prevent leaks 7.3. Specific end use(s) Paint SECTION 8: Exposure co 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisat Derived No/Minimal Effect Ethanol Type of value Reference group Duration of exposure Route of exposure Mode of action	EH40 WEL 375 560 tion: Sk; St Levels (DN Derived Worker Long te inhalatin System	mg/m ³ mg/m ³ mg/m ³ mg/m ³ atus: 2011 IEL/DMEL) I No Effect Level (D rm ve ic effects	osed. Keep awa h are opened m 1000 100 150 NEL)	ppm(V) ppm(V)	f ignition.

Safety data sheet in accordance v	-		
rade name: Marabu Sketch Marke	a Alpha 61	IG. 988 Version: 1/GB	Mara Date revised: 17.02.202
Substance number: 014800000010	01-988	Replaces Version: - / GB	Print date: 27.02.2
Duration of exposure	Sho	rt term	
Route of exposure	inha	lative	
Mode of action	Loca	al effects	
Concentration		1900	mg/m³
Type of value		ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure		g term	
Route of exposure Mode of action	derr	emic effects	
Concentration	Sys	343	malkald
Concentration		343	mg/kg/d
Type of value		ved No Effect Level (DNEL)	
Reference group Duration of exposure		sumer g term	
Route of exposure		lative	
Mode of action		emic effects	
Concentration	Cyc	114	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		rt term	
Route of exposure	inha	lative	
Mode of action	Loca	al effects	
Concentration		950	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Con	sumer	
Duration of exposure	Long	g term	
Route of exposure	derr		
Mode of action	Syst	emic effects	
Concentration		206	mg/kg/d
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		g term	
Route of exposure	oral	and a straight straig	
Mode of action	Syst	emic effects	
Concentration		87	mg/kg/d
1-Methoxy-2-propanol	-	· · · · · · · · · · · · · · · · · · ·	
Type of value		ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure Route of exposure	Acu	e lative	
Route of exposure Mode of action		al effects	
Concentration	LUCa	553,5	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Wor	· · · · · · · · · · · · · · · · · · ·	
Duration of exposure		g term	
Route of exposure	derr		
Mode of action		emic effects	
Concentration	, -	50,6	mg/person/
			d
Type of value	Deri	ved No Effect Level (DNEL)	

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-	Ū	ation (EC) No 1907/2006	
rade name: Marabu Sketch Marke	er Alpha 6t	g. 988	Marab
		Version: 1 / GB	Date revised: 17.02.2020
Substance number: 0148000001	01-988	Replaces Version: - / GB	Print date: 27.02.20
Reference group	Worl	ker	
Duration of exposure	Long	term	
Route of exposure	inhal	ative	
Mode of action	Syst	emic effects	
Concentration		369	mg/m³
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group	Gen	eral Population	
Duration of exposure	Long	term	
Route of exposure	derm	al	
Mode of action	Svst	emic effects	
Concentration	- ,	18,1	mg/kg
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure		term	
Route of exposure		ative	
Mode of action			
Concentration	Syst	emic effects 43,9	mg/m³
	. .		5
Type of value		ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure	Long	term	
Route of exposure	oral		
Mode of action	Syst	emic effects	
Concentration		3,3	mg/kg/d
Predicted No Effect Conce	entration	(PNEC)	
Ethanol		_	
Type of value	PNE	-	
Туре	Fres	hwater	
Concentration		0,96	mg/l
Type of value	PNE	с	
Type	Saltv	vater	
		0.70	-
Concentration		0,79	mg/l
Concentration	PNE		mg/l
Concentration Type of value		C	mg/l
Concentration			mg/l mg/l
Concentration Type of value Type Concentration	Wate	C er (intermittent release) 2,75	
Concentration Type of value Type Concentration Type of value	Wate	C er (intermittent release) 2,75 C	
Concentration Type of value Type Concentration	Wate	C er (intermittent release) 2,75	
Concentration Type of value Type Concentration Type of value Type Concentration	Wate PNE Sew	C er (intermittent release) 2,75 C age treatment plant (STP) 580	mg/l
Concentration Type of value Type Concentration Type of value Type Concentration Type of value	Wate PNE Sew PNE	C er (intermittent release) 2,75 C age treatment plant (STP) 580 C	mg/l
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type of value Type	Wate PNE Sew PNE	C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment	mg/l mg/l
Concentration Type of value Type Concentration Type of value Type Concentration Type of value	Wate PNE Sew PNE	C er (intermittent release) 2,75 C age treatment plant (STP) 580 C	mg/l
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	Wate PNE Sew PNE Fres PNE	C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6 C	mg/l mg/l
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration	Wate PNE Sew PNE Fres PNE	C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6 C ne sediment	mg/l mg/l mg/kg
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	Wate PNE Sew PNE Fres PNE	C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6 C	mg/l mg/l
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration	Wate PNE Sew PNE Fres PNE	C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6 C ne sediment 2,9	mg/l mg/l mg/kg
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration	Wate PNE Sew PNE Fres PNE Mari	C er (intermittent release) 2,75 C age treatment plant (STP) 580 C hwater sediment 3,6 C ne sediment 2,9	mg/l mg/l mg/kg

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bestance number: 0148000000101-988 Replaces Version: -/ GB Print date: 27.02.2 1 Type of value PNEC Freshwater orgen Concentration 10 mg/l mg/kg Type of value PNEC mg/kg T	de name: Marabu Sketch Ma	arker Alpha 6tlg. 9	o n (EC) No 1907/2006 988 /ersion: 1 / GB	Page A Marai Date revised: 17.02.202
Type of value PNEC	stance number: 014800000	0101-988 F	Replaces Version: -/GB	Print date: 27.02.2
Type of value PNEC	1-Methoxy-2-propanol			
Concentration 10 mg/l Type of value PNEC Type of value Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respiratory. Full mask, filter A <td></td> <td>PNEC</td> <td></td> <td></td>		PNEC		
Type of value PNEC Type of adoute ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Hand protection As any filter A Hand protection As any individual or combination of chemicals.		Freshwa		
Type Water Concentration 41,6 mg/kg Type of value PNEC Concentration 41,6 mg/kg Type of value PNEC Type down Sewage treatment plant (STP) Concentration 100 mg/l 2. Exposure controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, fitter A Hand protection 0.5 mm The exhaustrest han the end use ti	Concentration		10	mg/l
Concentration 41,6 mg/kg Type of value PNEC sediment Concentration 41,6 mg/kg Type of value PNEC mg/kg	Type of value	PNEC		
Type of value PNEC	Туре	Water		
Type Sediment Concentration 41.6 mg/kg Type of value PNEC Type of value Postion Porotide adequate ventil	Concentration		41,6	mg/kg
Type Sediment Concentration 41.6 mg/kg Type of value PNEC Type of value <t< td=""><td>Type of value</td><td>PNFC</td><td></td><td></td></t<>	Type of value	PNFC		
Concentration 41,6 mg/kg Type of value PNEC Marine sediment 4,17 mg/kg Type of value PNEC Concentration 4,17 mg/kg Type of value PNEC Type Soil mg/kg Type of value PNEC Concentration 2,47 mg/kg Type of value PNEC Concentration 100 mg/l Exposure controls Sewage treatment plant (STP) Concentration and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection If workers are exposed to concentrations of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. Material thickness 0,5 mm Breakthrough time must be greater than the end use time of the product. The breakthrough time must be greater than the end use time of the glove material. Always ensure that gloves are free from defects and that they are stored and used correcity. The performance or effectiveress of the glove manufacturer on use, storage, maintenance and replacemen		-	nt	
Type of value PNEC Type of value A,17 Type of value PNEC		2000		mg/kg
Type Marine sediment Concentration 4,17 mg/kg Type of value PNEC Type Soil Concentration 2,47 mg/kg Type of value PNEC Type value PNEC Type value PNEC Type value PNEC Type value			·	5 5
Concentration 4,17 mg/kg Type of value PNEC Soil 2,47 mg/kg Type of value PNEC Concentration 2,47 mg/kg Type of value PNEC Type Sewage treatment plant (STP) Concentration 100 mg/l Concentration 100	Type of value	PNEC		
Type of value PNEC Type of value 2,47 Type of value PNEC Type protection PNEC If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respir		Marine		
Type Soil Concentration 2,47 mg/kg Type of value PNEC Type of value PNEC Sewage treatment plant (STP) mg/l Concentration 100 mg/l 2. Exposure controls Exposure controls Exposure controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. Material thickness > 0,5 mistuctions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure	Concentration		4,17	mg/kg
Type Soil Concentration 2,47 mg/kg Type of value PNEC Type Sewage treatment plant (STP) Concentration 100 mg/l Sevage treatment plant (STP) Concentrols Exposure controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be work. Respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection Material thickness > 0,5 mm For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. Material thickness	Type of value	PNEC		
Concentration 2,47 mg/kg Type of value Type PNEC Sewage treatment plant (STP) Concentration mg/l C. Exposure controls 100 mg/l C. Exposure controls Frovide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. Material thickness 0,5 mm Breakthrough time < 30		-		
Type Concentration Sewage treatment plant (STP) 100 mg/l 2. Exposure controls Exposure controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection Material thickness > 0,5 mm Breakthrough time <		2011	2,47	mg/kg
Type Concentration Sewage treatment plant (STP) 100 mg/l 2. Exposure controls Exposure controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection Material thickness > 0.5 mm Breakthrough time <				
Concentration 100 mg/l Exposure controls Exposure controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. Material thickness > 90 min The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be a		-		
 Exposure controls Exposure controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Respiratory protection If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. Material thickness > 0,5 mm Breakthrough time < 30 min The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Eye protection Use safety eyewear designed to protect against splash of liquids. 		Sewage		ma/l
If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A Hand protection There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required. Material thickness > 0,5 mm Breakthrough time = < 30 min The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Eye protection Use safety eyewear designed to protect against splash of liquids. Body protection	-			
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Trade name: Marabu Sketch Marker	Alpha 6tlo	1. 988				ΔV
	1	Version: 1	/ GB		Date revised:	Marabu 17.02.2020
Substance number: 014800000010	1-988	Replaces Ve	ersion: -/GB			te: 27.02.20
9.1. Information on basic phy			al properties			
Form Colour	Liquic	1				
Odour	grey solve	nt-liko				
Odour threshold	301701	It-like				
Remarks	No de	ta available				
	INO Ga	ila avallable				
pH value						
Remarks	Not a	pplicable				
Melting point						
Remarks	not de	etermined				
Freezing point						
Remarks		etermined				
Initial boiling point and boi	ling rang	е				
Value	appr.	78		°C		
Flash point						
Value		12		°C		
Evaporation rate (ether = 1):					
Remarks	not de	etermined				
Flammability (solid, gas)						
Not applicable						
Upper/lower flammability o	r explosi	ve limits				
Lower explosion limit	appr.			%(V)		
Upper explosion limit	appr.	15		%(V)		
Source	Litera	ture value				
Vapour pressure						
Value	appr.	59		hPa		
Vapour density						
Remarks	not de	etermined				
Density						
Remarks	not de	etermined				
Solubility in water						
Remarks	partia	lly miscible				
Partition coefficient: n-octa	-	-				
Remarks		pplicable				
Ignition temperature		pplicable				
Value	appr	287		°C		
Source		ture value		U		
Efflux time						
Value	<	12		S		
Temperature		20	°C	-		
Method	DIN 5	3211 4 mm				
Explosive properties						
evaluation	no					
Oxidising properties						
evaluation	None	known				

MSDS for #82325 - MARABU SKET(Safety data sheet in accordance w		KER	Page As A
Carety data Sheet in accordance in	niirege		
Frade name: Marabu Sketch Marke	r Alpha 6	Stlg. 988	Marshi
		Version: 1 / GB	Date revised: 17.02.2020
Substance number: 014800000010	1-988	Replaces Version: - / GB	Print date: 27.02.20
Other information			
The physical specifications	are appr	oximate values and refer to the used	safety relevant component(s).
SECTION 10: Stability an	d read	ctivity	
10.1. Reactivity			
	en stored	and handled according to prescribe	ed instructions.
10.2. Chemical stability Stable under recommended	storage	and handling conditions (see section	n 7).
10.3. Possibility of hazardou	s react	tions	
Keep away from oxidising a exothermic reactions.	gents, st	rongly alkaline and strongly acid mat	terials in order to avoid
10.4. Conditions to avoid When exposed to high temp	eratures	may produce hazardous decompos	ition products.
10.5. Incompatible materials			
No hazardous reactions who	en stored	and handled according to prescribe	ed instructions.
10.6. Hazardous decomposit See chapter 5.2 (Firefighting		oducts res - Special hazards arising from the	e substance or mixture).
COTION 44, Tassia al a sile			
	cai inte	ormation	
11.1. Information on toxicolo			
11.1. Information on toxicolo Acute oral toxicity	ogical e	effects	
11.1. Information on toxicolo Acute oral toxicity Remarks	ogical e Based		criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo	ogical e Based	effects	criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol	Based	effects	criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species	ogical e Based	effects on available data, the classification	
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50	Based	effects	
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11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	Based Donents) rat Based	effects on available data, the classification 5200 mg/ on available data, the classification	kg
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 11.1. Information on toxicold Acute oral toxicity Remarks Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks Mutagenicity 	pgical e Based pnents) rat Based nponen rabbit Based ion irritant The cl. Based	effects on available data, the classification 5200 mg/ on available data, the classification ts) 14000 mg/ on available data, the classification on available data, the classification assification criteria are met. on available data, the classification	kg criteria are not met. kg criteria are not met. criteria are not met.
 11.1. Information on toxicold Acute oral toxicity Remarks Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks Mutagenicity Remarks 	pgical e Based pnents) rat Based nponen rabbit Based ion irritant The cl. Based	effects on available data, the classification 5200 mg/ on available data, the classification ts) 14000 mg/ on available data, the classification on available data, the classification assification criteria are met.	kg criteria are not met. kg criteria are not met. criteria are not met.
 11.1. Information on toxicold Acute oral toxicity Remarks Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks Mutagenicity 	pgical e Based pnents) rat Based nponen rabbit Based ion irritant The cl Based Based	effects on available data, the classification 5200 mg/ on available data, the classification ts) 14000 mg/ on available data, the classification on available data, the classification assification criteria are met. on available data, the classification	kg criteria are not met. kg criteria are not met. criteria are not met. criteria are not met.

MSDS for #82325 - MARABU SKET	CH MAR	KER			Page An of T
Safety data sheet in accordance	with regu	lation (EC) No 1907/2 (006	
Trade name: Marabu Sketch Marke	er Alpha 6	Stla. 988			
		-	: 1/GB		Date revised: 17.02.2020
Substance number: 0148000001	01-988	Replace	es Version:	- / GB	Print date: 27.02.20
Carcinogenicity					
Remarks			le data, the o	classification cri	teria are not met.
Specific Target Organ Tox	cicity (S	ТОТ)			
Single exposure					
Remarks	Based	on availab	le data, the o	classification cri	teria are not met.
Repeated exposure Remarks	Based	on availab	le data, the d	classification cri	teria are not met.
Aspiration hazard					
Based on available data, th	e classifio	cation criter	ia are not m	et.	
Experience in practice				and the state of t	ated occupational exposure
dizziness, fatigue, muscula Solvents may cause some contact with the mixture ma dermatitis and absorption tl	ney, liver a r weaknes of the abo ny cause r nrough the on may ca liate effect	and central ss, drowsin ove effects removal of e skin. The ause nause cts and also	nervous sys ess and in e by absorptio natural fat fro liquid splasl a, diarrhoea chronic effe	stem. Symptoms xtreme cases, I in through the s om the skin resu ned in the eyes and vomiting. T ects of compone	s and signs include headache, oss of consciousness. kin. Repeated or prolonged ulting in non-allergic contact may cause irritation and This takes into account, where ents from short-term and
Other information				·	-
There are no data available The mixture has been asse 1272/2008 and classified fo	ssed follo	wing the a	dditivity metl		Regulation (EC) No
SECTION 12: Ecological	inform	<u>nation</u>			
12.1. Toxicity					
General information There are no data available mixture has been assessed and is not classified as dan	l following	g the summ	ation metho		s or water courses.The egulation (EC) No 1272/2008
Fish toxicity (Components	-				
1-Methoxy-2-propanol	•				
Species		orfe (Leuc	iscus idus)		
LC0 Duration of exposure	>	4600 96	h	mg/l	
Daphnia toxicity (Compor	ents)				
1-Methoxy-2-propanol	,				
Species	Daphn	ia magna			
EC50 Duration of exposure		23300 48	h	mg/l	
Algae toxicity (Componen	ts)	10			
1-Methoxy-2-propanol	,				
Species	Desmo	odesmus			
EC50 Duration of exposure	>	1000 168	h	mg/l	
Bacteria toxicity (Compor	ents)				
1-Methoxy-2-propanol	- ,				
Species	activat	ed sludge			

MSDS for #82325 - MA	ARABU SKETCH MA	RKER		Page Think T
Safety data sheet in a	accordance with reg	ulation (EC) No 1907/2	2006	
Trade name: Marabu	Sketch Marker Alpha	6tlg. 988		
		Version: 1/GB		Date revised: 17.02.2020
Substance number: 0	0148000000101-988	Replaces Version:	- / GB	Print date: 27.02.20
EC50	>	1000	mg/l	
12.2. Persistence	-	ty		
General inform No data availa				
Biodegradabili	ity (Components)			
1-Methoxy-2-p	ropanol			
Value Duration of te	ct	90 28 d	%	
evaluation		28 d lily biodegradable (acco	ording to OECD crit	teria)
Method		D 301 F	3 1 1 1	
12.3. Bioaccumul	-			
General inform				
	data available on the			
Remarks	icient: n-octanol/w N	ot applicable		
12.4. Mobility in s	soil			
General inform	nation			
There are no	data available on the	mixture itself.		
12.5. Results of P	BT and vPvB as	sessment		
General inform	nation			
There are no	data available on the	mixture itself.		
12.6. Other adver	se effects			
General inform	nation			
There are no	data available on the	mixture itself.		
SECTION 13: Di	isposal consid	<u>erations</u>		
13.1. Waste treatr	ment methods			
Disposal recor	mmendations for t	he product		
	o enter drains or wate			
		ould be classified in acc assification of this produ		vant national regulation.
EWC waste c			taining dangerous	
			e product code ma	ay no longer apply and the
	ode should be assigned ormation contact your	ed. r local waste authority.		
	mmendations for p			
Using informa	tion provided in this s	afety data sheet, advice	e should be obtaine	ed from the relevant waste
5	ne classification of em			
	ners must be scrappe containers are hazard	d or reconditioned.	number 150110).	
			,	
SECTION 14: Tr	ansport inform	nation		

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Substance number: 014800	Version: 00000101-988 Replaces V	1 / GB Version: - / GB	Date revised: 17.02.2020 Print date: 27.02.20
	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	П	П
Special provision	640D		
Limited Quantity	51		
Transport category	3		
14.5. Environmental hazards		no	

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

voc

VOC (EU)

%

Other information

The product does not contain substances of very high concern (SVHC).

87

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

rade name: Marabu	u Sketch Marker Alph	na 6tlg. 988	
		Version: 1 / GB	Date revised: 17.02.2020
Substance number:	0148000000101-988	8 Replaces Version: - / GB	Print date: 27.02.20
H225		hly flammable liquid and vapour.	
H226		mmable liquid and vapour.	
H319 H336		uses serious eye irritation. y cause drowsiness or dizziness.	
		-	
-	es listed in Chapte		
Eye Irrit. 2 Flam. Lig. 2		e irritation, Category 2 mmable liquid, Category 2	
Flam. Liq. 2		mmable liquid, Category 2 mmable liquid, Category 3	
STOT SE 3		ecific target organ toxicity - single exp	osure. Category 3
Supplementa	•	······ ····· ····· ···················	
		the previous version of the safety dat	ta sheet are marked with: ***
construed as The product to the supplie As the speci for ensuring The informat	s any guarantee of ter should not be used for er and obtaining writt fic conditions of use of that the requirements tion contained in this	afety and environmental aspects of the chnical performance or suitability for p or purposes other than those shown in en handling instructions. of the product are outside the supplier is of relevant legislation are complied v safety data sheet does not constitute ther health and safety legislation.	barticular applications. n Section 1 without first referring 's control, the user is responsible with.

	RABU SKETCH MAF	RKER	Page =• ··
Safety data sheet in a	ccordance with reg	ulation (EC) No 1907/2006	
Frade name: Marabu S	Sketch Marker Alpha	6tlg. 991	
		Version: 1 / GB	Date revised: 17.02.2020
Substance number: 0 ²	148000000101-991	Replaces Version: - / GB	Print date: 27.02.20
		•	
		<u>ne substance/mixture a</u>	<u>nd of the</u>
company/undert	<u>aking</u>		
1.1. Product identi	ifier		
Marabu Sketch	n Marker Alpha 6tlg. 9	991	
1.2. Relevant ident	tified uses of the	e substance or mixture and	uses advised against
Use of the substar	nce/preparation		
Identified Uses			
SU21		ses: Private households (= general	l public = consumers)
PC9a		d paints, thinners, paint removers	
1.3. Details of the	supplier of the s	afetv data sheet	
Address/Manuf	• •		
Marabu GmbH			
Asperger Stras			
71732 Tamm			
Germany Telephone no.	+49-7141/69	91-0	
Fax no.	+49-7141/69		
Information pro	ovided Department	product safety	
by / telephone E-mail address	of PRSI@mara	abu com	
person respons			
for this SDS			
1.4. Emergency te	lephone number		
(+49) (0)621-60	0-43333		
	anda idan (Kira		
SECTION 2: Haz	ards identifica	ition	
2.4 Cleasification	of the substanc	e or mixture	
2.1. Classification	Regulation (EC) N	o. 1272/2008)	
Classification (
Classification (Classification (Regulation (EC) No.	1272/2008)	
Classification (Classification (Regulation (EC) No. Flam. Liq. 2	H225	
Classification (Classification (Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2	1272/2008) H225 H319	
Classification (Classification (2.2. Label element	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2	H225 H319	
Classification (Classification (2.2. Label element	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2	H225	
Classification (Classification (2.2. Label element	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 Sording to regulat	H225 H319	
Classification (Classification (2.2. Label element Labelling acco	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 Sording to regulat	H225 H319	
Classification (Classification (2.2. Label element Labelling acco	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 Sording to regulat	H225 H319	
Classification (Classification (2.2. Label element Labelling acco	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 Sording to regulat	H225 H319	
Classification (Classification (2.2. Label element Labelling acco	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 Sording to regulat	H225 H319	
Classification (Classification (2.2. Label element Labelling acco	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 Sording to regulat	H225 H319	
Classification (Classification (2.2. Label element Labelling acco Hazard pictogra	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 Sording to regulat	H225 H319	
Classification (Classification (2.2. Label element Labelling acco Hazard pictogra Signal word	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 s ording to regulat ams	H225 H319	
Classification (Classification (Classification (2.2. Label element Labelling acco Hazard pictogra Hazard pictogra Signal word Danger	Regulation (EC) No. Flam. Liq. 2 Eye Irrit. 2 ss ording to regulat ams	H225 H319	

Page 1(13)

SDS for #82325 - MARABU afety data sheet in accord	ance with regu	lation (EC)	No 190	7/2006			
ade name: Marabu Sketch	Marker Alpha 6	tlg. 991					\mathbb{N}
		Version:	1 / GE	3		Date revised:	магаы 17.02.2020
ubstance number: 014800	0000101-991	Replace	s Versio	on: -/G	В	Print da	ate: 27.02.20
P101				e produc	t containe	r or label at hand.	
P102	Keep out of r						•••
P210	sources. No s		t surrac	es, spar	ks, open fi	ames and other ignit	ion
P264.1	Wash hands	thoroughly a	after ha	ndling.			
P280 P305+P351+P338						otection / face prote minutes. Remove c	
	lenses, if pres	sent and ea	sy to do	. Continu	ue rinsing.		ontact
P501.9	Dispose of co					te.	
.3. Other hazards	ovo to bo monti	anad					
No special hazards h	ave to be menti	onea.					
ECTION 3: Compos	sition/infor	mation o	<u>on in</u>	gredie	<u>ents</u>		
.2. Mixtures							
Hazardous ingredier	its						
Ethanol							
CAS No. EINECS no.	64-17-5 200-578-6						
Registration no.	01-21194576	10-43					
Concentration	>=	50	<	100	%		
Classification (Regulation)		272/2008)					
	Flam. Liq. 2		H225 H319				
	Eye Irrit. 2		H319				
Concentration limits	Regulation (EC) Eye Irrit. 2	/No. 1272 (H319		50 %			
1-Methoxy-2-propano							
CAS No.	107-98-2						
EINECS no. Registration no.	203-539-1 01-21194574	35-35					
Concentration	>=	10	<	20	%		
Classification (Regula	ation (EC) No. 1	272/2008)					
	STOT SE 3		H336				
	Flam. Liq. 3		H226				
ECTION 4: First aid	measures	<u>i</u>					
.1. Description of first	aid measure	es					
General information							
In all cases of doubt, to an unconscious pe							y mouth
After inhalation		lious place	mecov	ery posi	lion and se	ek medical advice.	
Remove to fresh air, artificial respiration.	keep patient wa	rm and at re	est. If br	eathing i	is irregular	or stopped, adminis	ter
After skin contact							
Remove contaminate cleanser. Do NOT us			ughly w	vith soap	and water	or use recognised s	kin
After eye contact							
–						he eyelids apart for	

MSDS for #82325 - MARABU	J SKETCH MARKER	
	lance with regulation (EC) No 19	

Trade name: Marabu Sketch Marker Alpha 6tlg. 991

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minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Replaces Version: - / GB

4.2. Most important symptoms and effects, both acute and delayed Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks

	H MARKE	२ on (EC) No 1907/2006		
Frade name: Marabu Sketch Marker				Marab
		Version: 1/GB		Date revised: 17.02.2020
Substance number: 0148000000101	-991	Replaces Version: - / GI	3	Print date: 27.02.20
and open flame. No sparking particulates and spray mist ar be prohibited in application ar container is not a pressure ve Comply with the health and sa	rising from rea. For pe essel. Alwa	the application of this mix rsonal protection see Sec ys keep in containers of s	cture. Smo ction 8. Ne same mate	oking, eating and drinking shall ever use pressure to empty: erial as the original one.
Advice on protection agains	st fire and	d explosion		
Vapours are heavier than air a	and may s	pread along floors. Vapou	irs may fo	rm explosive mixtures with
Classification of fires / temp	perature o	class / Ignition group	/ Dust ex	plosion class
Classification of fires Temperature class	B (Combu T3	stible liquid substances)		
7.2. Conditions for safe storage	ge, inclu	ding any incompati	bilities	
Requirements for storage re	ooms and	l vessels		
Electrical installations/working standards. Storage rooms in accordance with national regu	which filling			
Hints on storage assembly				
Store away from oxidising age	ents, from	strongly alkaline and stro	ngly acid r	materials.
Further information on stora	age cond	itions		
Observe label precautions. So sources of heat and direct sur No smoking. Prevent unautho	nlight. Kee	p container tightly closed.	Keep aw	ay from sources of ignition.
		33. Oomainers which are	opened n	iust be calefully resealed and
kept upright to prevent leakag		.ss. containers which are	opened n	iust be calefully resealed and
kept upright to prevent leakag			opened n	
kept upright to prevent leakag			opened n	
kept upright to prevent leakag 7.3. Specific end use(s) Paint	ge.		·	
kept upright to prevent leakag 7.3. Specific end use(s) Paint SECTION 8: Exposure con	ge.		·	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters	ge.		·	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values	ge.		·	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol	^{ge.} ntrols/p		·	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List	ge.		·	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol	ge. htrols/p EH40		·	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type	pe. ntrols/p EH40 WEL	ersonal protectio	<u>n</u>	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol	e. ntrols/p EH40 WEL 1920	ersonal protectio	<u>n</u>	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List	e. htrols/p EH40 WEL 1920 EH40	ersonal protectio	<u>n</u>	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type	EH40 WEL 1920 EH40 WEL	ersonal protectio mg/m³	2 n 1000	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Status: 2011	EH40 WEL 1920 EH40 WEL 375	<mark>ersonal protectio</mark> mg/m³ mg/m³	2 n 1000 100	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit	EH40 WEL 1920 EH40 WEL 375 560	<mark>ersonal protectio</mark> mg/m³ mg/m³ mg/m³	2 n 1000	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S	ersonal protectio mg/m³ mg/m³ status: 2011	2 n 1000 100	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure com 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S	ersonal protectio mg/m³ mg/m³ status: 2011	2 n 1000 100	ppm(V)
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kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatic Derived No/Minimal Effect L Ethanol Type of value	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S .evels (Di Derive	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL)	2 n 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure com 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S _evels (D	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r	2 n 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatic Derived No/Minimal Effect L Ethanol Type of value	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S .evels (Di Derive Worke	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm	2 n 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure com 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S .evels (Di Derive Worke Long te inhalat	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm	2 n 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure com 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure Route of exposure	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S .evels (Di Derive Worke Long te inhalat	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm ive	2 n 1000 100 150	ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure com 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure Route of exposure Mode of action Concentration	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S evels (DI Derived Long te inhalat System	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm ive nic effects 950	2 n 1000 100 150	ppm(V) ppm(V) ppm(V)
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure com 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure limit Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure Route of exposure Mode of action	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S evels (DI Derived Long te inhalat System	ersonal protectio mg/m ³ mg/m ³ itatus: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm ive hic effects 950 d No Effect Level (DNEL)	2 n 1000 100 150	ppm(V) ppm(V) ppm(V)

Trade name: Marabu Sketch Marke	r Alnha 6ti	a 991	
Tade hame. Marabu Sketch Marke		Version: 1/GB	Date revised: 17.02.2020
Substance number: 014800000010	1-991	Replaces Version: - / GB	Print date: 27.02.20
Duration of exposure	Shor	t term	
Route of exposure		ative	
Mode of action	Loca	l effects	
Concentration		1900	mg/m³
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group	Worl	ker	
Duration of exposure		term	
Route of exposure	derm		
Mode of action	Syst	emic effects	
Concentration		343	mg/kg/d
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		term	
Route of exposure		ative	
Mode of action	Syst	emic effects	4.2
Concentration		114	mg/m³
Type of value	Deriv	/ed No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure	Shor	t term	
Route of exposure	inhal	ative	
Mode of action	Loca	l effects	
Concentration		950	mg/m³
Type of value	Deriv	/ed No Effect Level (DNEL)	
Reference group	Cons	sumer	
Duration of exposure	Long	term	
Route of exposure	derm		
Mode of action	Syst	emic effects	
Concentration		206	mg/kg/d
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure	Long	ı term	
Route of exposure	oral		
Mode of action	Syst	emic effects	
Concentration		87	mg/kg/d
1-Methoxy-2-propanol			
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group	Worl		
Duration of exposure	Acut		
Route of exposure		ative	
Mode of action	Loca	l effects	
Concentration		553,5	mg/m³
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group	Worl	ker	
Duration of exposure		term	
Route of exposure	derm		
Mode of action	Syst	emic effects	
Concentration		50,6	mg/person/
			d
Type of value	Deriv	ved No Effect Level (DNEL)	

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	with regulation (EC) No 1907/2006	
rade name: Marabu Sketch Marke		Marab
	Version: 1/GB	Date revised: 17.02.2020
Substance number: 0148000001	01-991 Replaces Version: - / GB	Print date: 27.02.20
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	369	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	18,1	mg/kg
		0.0
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	43,9	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	3,3	mg/kg/d
Predicted No Effect Conc	entration (PNEC)	
Ethanol		
Type of value	PNEC	
Type	Freshwater	
Concentration	0,96	mg/l
	PNEC	
Type of value	= •	
Туре	Saltwater	
Concentration	0,79	mg/l
Type of value	PNEC	
Туре	Water (intermittent release)	
Concentration	2,75	mg/l
	PNEC	
Type of value		
Type of value Type	Sewage treatment plant (STP)	
Type of value Type Concentration	Sewage treatment plant (STP) 580	mg/l
Type Concentration	580	mg/l
Type Concentration Type of value	580 PNEC	mg/l
Type Concentration Type of value Type	580 PNEC Freshwater sediment	-
Type Concentration Type of value	580 PNEC	mg/l mg/kg
Type Concentration Type of value Type Concentration Type of value	580 PNEC Freshwater sediment 3,6 PNEC	-
Type Concentration Type of value Type Concentration Type of value Type	580 PNEC Freshwater sediment 3,6	-
Type Concentration Type of value Type Concentration Type of value	580 PNEC Freshwater sediment 3,6 PNEC	-
Type Concentration Type of value Type Concentration Type of value Type Concentration	580 PNEC Freshwater sediment 3,6 PNEC Marine sediment 2,9	mg/kg
Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	580 PNEC Freshwater sediment 3,6 PNEC Marine sediment 2,9 PNEC	mg/kg
Type Concentration Type of value Type Concentration Type of value Type Concentration	580 PNEC Freshwater sediment 3,6 PNEC Marine sediment 2,9	mg/kg

ety data sheet in ac	ABU SKETCH MARKE cordance with regulation ketch Marker Alpha 6ti <u>c</u>	tion (EC) No 1907/2006	Page A
		Version: 1/GB	Date revised: 17.02.202
ostance number: 014	48000000101-991	Replaces Version: - / GB	Print date: 27.02.2
1-Methoxy-2-pro	panol		
Type of value	PNEC	>	
Туре	Fresh		
Concentration		10	mg/l
Type of value	PNEC	2	
Туре	Water		
Concentration		41,6	mg/kg
Type of value	PNEC		
Туре	Sedin	nent	
Concentration		41,6	mg/kg
Type of value	PNEC	2	
Type		e sediment	
Concentration		4,17	mg/kg
Type of value	PNEC	2	
Type	Soil	-	
Concentration	20	2,47	mg/kg
Type of value	PNEC	2	
Type	Sewa	ge treatment plant (STP)	
Concentration	rols	ge treatment plant (STP) 100	mg/l
Concentration Concen	rols ols te ventilation. Where re ion and good general e I solvent vapour below t tection	100 easonably practicable this should xtraction. If these are not sufficie the OEL, suitable respiratory pro	d be achieved by the use of local ent to maintain concentrations of otection must be worn.
Concentration Concen	rols bls te ventilation. Where re ion and good general e I solvent vapour below t tection xposed to concentration mask, filter A	100 easonably practicable this should xtraction. If these are not sufficie	d be achieved by the use of local ent to maintain concentrations of otection must be worn.
Concentration 2. Exposure contro Provide adequa exhaust ventilat particulates and Respiratory prof If workers are ex- respirators. Full Hand protection	rols bls te ventilation. Where re ion and good general e l solvent vapour below t tection xposed to concentration mask, filter A	100 easonably practicable this should xtraction. If these are not sufficie the OEL, suitable respiratory pro	d be achieved by the use of local ent to maintain concentrations of otection must be worn.
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Concentration Concentration Concentration Concentration Concentration Concentration Concentration Provide adequa exhaust ventilat particulates and Respiratory prof If workers are ex- respirators. Full Hand protection There is no one individual or cor	rols bls te ventilation. Where re- ion and good general e l solvent vapour below t tection xposed to concentration mask, filter A glove material or comb mbination of chemicals.	100 easonably practicable this should xtraction. If these are not sufficie the OEL, suitable respiratory pro- ns above the exposure limit they pination of materials that will give	d be achieved by the use of local ent to maintain concentrations of otection must be worn. w must use appropriate, certified e unlimited resistance to any
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Concentration Concentration Concentration Concentration Concentration Concentration Provide adequa exhaust ventilat particulates and Respiratory prot If workers are ex- respirators. Full Hand protection There is no one individual or corr For prolonged o Material thickne Breakthrough tir	rols bls te ventilation. Where re- ion and good general e l solvent vapour below f tection xposed to concentration mask, filter A glove material or comb nbination of chemicals. r repeated handling nitu ss > 0 me < 3	asonably practicable this should xtraction. If these are not sufficie the OEL, suitable respiratory pro- ns above the exposure limit they pination of materials that will give rile rubber gloves with textile une 0,5 mm 30 min	d be achieved by the use of local ent to maintain concentrations of otection must be worn. w must use appropriate, certified e unlimited resistance to any dergloves are required.
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Concentration Concen	rols bls te ventilation. Where re- ion and good general e l solvent vapour below to tection xposed to concentration mask, filter A glove material or comb nbination of chemicals. r repeated handling nitr ss > 0 me < 3 gh time must be greated is and information provid ust be followed. be replaced regularly ar that gloves are free from	100 easonably practicable this should xtraction. If these are not sufficient the OEL, suitable respiratory pro- ns above the exposure limit they bination of materials that will give rile rubber gloves with textile und 0,5 mm 30 min r than the end use time of the pri- led by the glove manufacturer of and if there is any sign of damage in defects and that they are store	d be achieved by the use of local ent to maintain concentrations of beection must be worn. w must use appropriate, certified e unlimited resistance to any dergloves are required. roduct. n use, storage, maintenance and e to the glove material.
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Concentration 2. Exposure control Provide adequa exhaust ventilat particulates and Respiratory prof If workers are ex- respirators. Full Hand protection There is no one individual or corr For prolonged o Material thickne Breakthrough tin The breakthrough The instructions replacement mu Gloves should b Always ensure to The performance. Barrier creams no once exposure to Eye protection Use safety eyew Body protection	rols te ventilation. Where re- ion and good general e I solvent vapour below the tection xposed to concentration mask, filter A glove material or combination of chemicals. I repeated handling nither so combination of chemicals. I repeated handling nither so combination of chemicals. I repeated handling nither so combination provided the so combination protect the so combination the so combination protect the so combination protect the so combination the so combination protect the so combination prote	100 easonably practicable this should xtraction. If these are not sufficient the OEL, suitable respiratory pro- the above the exposure limit they bination of materials that will give rile rubber gloves with textile und 0,5 mm 30 min r than the end use time of the pri- led by the glove manufacturer of and if there is any sign of damage in defects and that they are store e glove may be reduced by physi- exposed areas of the skin, they	d be achieved by the use of local ent to maintain concentrations of otection must be worn. w must use appropriate, certified e unlimited resistance to any dergloves are required. educt. n use, storage, maintenance and to the glove material. ed and used correctly. sical/ chemical damage and poor

Version: 1 / GB Date revised: 17.02.2020 Substance number: 0148000000101-991 Replaces Version: -/ GB Print date: 27.02.20 9.1. Information on basic physical and chemical properties Form Liquid Print date: 27.02.20 Form Liquid grey Gdour solvent-like Print date: 27.02.20 Odour threshold Remarks No data available Print date: 27.02.20 PH value grey Odour solvent-like Odour threshold Remarks Not applicable Metting point Remarks not determined Remarks not determined Initial boiling point and boiling range Value appr. 78 *C Plash point T *C Value 12 *C Evaporation rate (ether = 1) : Remarks not determined Initial boiling gas) Not applicable Yet(V) Upper Polower flammability (solid, gas) Not applicable Yet(V) Upper Polower flammability appr. 15 %(V) Upper explosion limit appr. 15 %(V) Upper Polower flammability motible Partially miscible Partialitio coefficient: n-octanol/water Rema	Trade name: Marabu Sketch Marke	r Alpha 6tlo	a. 991					
Stubstance number: 014800000101-991 Replaces Version: -/GB Print date: 27.02.20 9.1. Information on basic physical and chemical properties Form Liquid Form Liquid Colour grey odour solvent-like Odour solvent-like Odour threshold Remarks No data available pH solvent-like Odour solvent-like Odour threshold Remarks Not applicable Metting point Remarks not determined Remarks not determined Freezing point Remarks C Flash point Value appr. 78 "C "C Evaporation rate (ether = 1) : Remarks not determined Flammability (solid, gas) Not applicable Upper/lower fammability or explosive limits Value appr. 5 %(V) Upper proserre Value appr. 59 hPa Yapu				1 / GB			Date revised:	17.02.2020
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carety data sheet in accordance wi	CH MAR i th regu	N⊏R lation (EC) No 1907/2006	Page 21 A
Frade name: Marabu Sketch Marker	Alpha 6	stla 991	
Trade fiame. Maraba Oketen Marker	Арна с	Version: 1/GB	Date revised: 17.02.2020
Substance number: 0148000000101	1-991	Replaces Version: - / GB	Print date: 27.02.20
Other information		· · · · · · · · · · · · · · · · · · ·	
The physical specifications a	ire appro	oximate values and refer to the use	ed safety relevant component(s).
SECTION 10: Stability and	d read	tivity	
10.1. Reactivity			
	n storec	l and handled according to prescril	bed instructions.
10.2. Chemical stability Stable under recommended stable under recommended stable stability	storage	and handling conditions (see secti	ion 7).
10.3. Possibility of hazardous Keep away from oxidising ag exothermic reactions.		t ions rongly alkaline and strongly acid m	naterials in order to avoid
10.4. Conditions to avoid When exposed to high tempe	eratures	may produce hazardous decompo	osition products.
10.5. Incompatible materials			
	n stored	I and handled according to prescril	bed instructions.
10.6. Hazardous decompositi	ion nr	oducts	
SECTION 11: Toxicologica	al inf	armation	
11.1. Information on toxicolog	gical e		n criteria are not met.
11.1. Information on toxicolog Acute oral toxicity Remarks	gical e Based	effects	n criteria are not met.
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compo	gical e Based	effects	n criteria are not met.
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11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Comport 1-Methoxy-2-propanol Species LD50	gical e Based nents) rat	effects on available data, the classificatio	g/kg
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compose 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	gical e Based nents) rat Based	on available data, the classificatio 5200 m on available data, the classificatio	g/kg
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Specific Target Organ Toxicit Single exposure Remarks Ba Repeated exposure	regulation (EG bha 6tlg. 991 Versior 91 Replace ased on availab y (STOT) ased on availab ased on availab ased on availab assification crite is vapours conc th effects such a liver and central akness, drowsir use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	a: 1 / GB es Version: - ole data, the cla ole data, the cla ole data, the cla ole data, the cla ria are not met as mucous men l nervous syste by absorption natural fat from a liquid splashe ea, diarrhoea a o chronic effect nal routes of et lf.	/ GB assification criteria ar assification criteria ar assification criteria ar assification criteria ar t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of o through the skin. Re n the skin resulting ir ad in the eyes may ca ind vomiting. This tak ts of components from	re not met. The no
Substance number: 0148000000101-9 Carcinogenicity Remarks Base Specific Target Organ Toxicity Single exposure Remarks Base Repeated exposure Remarks Based on available data, the cla Experience in practice Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular weat Solvents may cause some of the contact with the mixture may cau dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inhat Other information There are no data available on the mixture has been assessed 1272/2008 and classified for tox SECTION 12: Ecological information	Version 91 Replace ased on availab y (STOT) ased on availab ased on availab assification crite assification crite assification crite s vapours conc th effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel	es Version: -	/ GB assification criteria ar assification criteria ar assification criteria ar assification criteria ar t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ad in the eyes may ca ind vomiting. This tak ts of components from	Print date: 27.02.20 The not met. The not me
Substance number: 0148000000101-9 Carcinogenicity Remarks Base Specific Target Organ Toxicity Single exposure Remarks Base Repeated exposure Remarks Based on available data, the cla Experience in practice Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular weat Solvents may cause some of the contact with the mixture may cau dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inhat Other information There are no data available on the mixture has been assessed 1272/2008 and classified for tox SECTION 12: Ecological information	Version 91 Replace ased on availab y (STOT) ased on availab ased on availab assification crite assification crite assification crite s vapours conc th effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel	es Version: -	/ GB assification criteria ar assification criteria ar assification criteria ar assification criteria ar t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ad in the eyes may ca ind vomiting. This tak ts of components from	Print date: 27.02.20 The not met. The not me
Carcinogenicity Remarks Based Specific Target Organ Toxicity Single exposure Remarks Based Repeated exposure Remarks Based on available data, the clases Experience in practice Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular wea Solvents may cause some of the contact with the mixture may ca dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inha Other information There are no data available on to The mixture has been assessed 1272/2008 and classified for tox	ased on availab y (STOT) ased on availab ased on availab assification crite assification crite s vapours conc th effects such a liver and central akness, drowsir use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	ole data, the cla ole data, the cla ole data, the cla ole data, the cla ria are not met as mucous men l nervous syste by absorption natural fat from a liquid splashe ba, diarrhoea a o chronic effect nal routes of et	/ GB assification criteria ar assification criteria ar assification criteria ar assification criteria ar t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ad in the eyes may ca ind vomiting. This tak ts of components from	Print date: 27.02.20 The not met. The not me
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Remarks Based on available data, the cla Solvents may cause some of the contact with the mixture become solvents and the contact with the mixture has been assessed to the mixture has been assessed to the mixture has been assessed to the contact with the mixture has been assessed to the mixture has been as	y (STOT) ased on availab ased on availab assification crite assification crite the effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	ble data, the cla ble data, the cla ria are not met as mucous met l nervous syste by absorption natural fat from a liquid splashe a, diarrhoea a o chronic effect nal routes of et lf.	assification criteria ar assification criteria ar t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ed in the eyes may ca nd vomiting. This tak ts of components from	re not met. The no
Single exposure RemarksBaseRepeated exposure RemarksBaseAspiration hazardBased on available data, the claExperience in practiceExposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular wea Solvents may cause some of the contact with the mixture may ca dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inhaOther information There are no data available on the The mixture has been assessed 1272/2008 and classified for toxSECTION 12: Ecological info	ased on availab ased on availab assification crite is vapours conc th effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	ele data, the cla ria are not met entration in ext as mucous mer l nervous syste by absorption natural fat from a liquid splashe a, diarrhoea a o chronic effect nal routes of ex	assification criteria ar t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ed in the eyes may ca nd vomiting. This tak ts of components from	re not met. cupational exposure bry system irritation igns include headache, consciousness. peated or prolonged n non-allergic contact ause irritation and tes into account, where m short-term and
Remarks Base Repeated exposure Remarks Base Aspiration hazard Based on available data, the classified for tox Experience in practice Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular weat Solvents may cause some of the contact with the mixture may can dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inhat Other information There are no data available on to The mixture has been assessed 1272/2008 and classified for tox	ased on availab assification crite is vapours conc th effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	ele data, the cla ria are not met entration in ext as mucous mer l nervous syste by absorption natural fat from a liquid splashe a, diarrhoea a o chronic effect nal routes of ex	assification criteria ar t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ed in the eyes may ca nd vomiting. This tak ts of components from	re not met. cupational exposure bry system irritation igns include headache, consciousness. peated or prolonged n non-allergic contact ause irritation and tes into account, where m short-term and
Repeated exposure RemarksBaseAspiration hazard Based on available data, the clate Experience in practiceExperience in practice Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular weat Solvents may cause some of the contact with the mixture may ca dermatitis and absorption througt reversible damage. Ingestion mit known, delayed and immediate long-term exposure by oral, inhatOther information There are no data available on the The mixture has been assessed 1272/2008 and classified for toxSECTION 12: Ecological infertion	ased on availab assification crite is vapours conc th effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	ele data, the cla ria are not met entration in ext as mucous mer l nervous syste by absorption natural fat from a liquid splashe a, diarrhoea a o chronic effect nal routes of ex	assification criteria ar t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ed in the eyes may ca nd vomiting. This tak ts of components from	re not met. cupational exposure bry system irritation igns include headache, consciousness. peated or prolonged n non-allergic contact ause irritation and tes into account, where m short-term and
Remarks Based Aspiration hazard Based on available data, the clast Experience in practice Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular weat Solvents may cause some of the contact with the mixture may ca dermatitis and absorption through reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inhat Other information There are no data available on the The mixture has been assessed 1272/2008 and classified for tox	assification crite is vapours conc ih effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	ria are not met entration in ex- as mucous mer l nervous syste bess and in ext by absorption natural fat from e liquid splashe ea, diarrhoea a o chronic effect nal routes of es	t. cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting in the skin resulting in the skin resulting in the skin resulting in the skin resulting the ts of components from	cupational exposure bry system irritation igns include headache, consciousness. peated or prolonged n non-allergic contact ause irritation and tes into account, where m short-term and
Based on available data, the cla Experience in practice Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular wea Solvents may cause some of the contact with the mixture may ca dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inha Other information There are no data available on the The mixture has been assessed 1272/2008 and classified for tox	ts vapours conc h effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	entration in exa as mucous men nervous syste ness and in ext by absorption natural fat from e liquid splashe ea, diarrhoea a o chronic effect nal routes of et	cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting in the skin resulting in the skin the eyes may ca nd vomiting. This tak ts of components from	bry system irritation igns include headache, consciousness. peated or prolonged n non-allergic contact ause irritation and tes into account, where m short-term and
 Experience in practice Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular wea Solvents may cause some of the contact with the mixture may can dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inhat Other information There are no data available on the The mixture has been assessed 1272/2008 and classified for tox 	ts vapours conc h effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	entration in exa as mucous men nervous syste ness and in ext by absorption natural fat from e liquid splashe ea, diarrhoea a o chronic effect nal routes of et	cess of the stated oc mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting in the skin resulting in the skin the eyes may ca nd vomiting. This tak ts of components from	bry system irritation igns include headache, consciousness. peated or prolonged n non-allergic contact ause irritation and tes into account, where m short-term and
Exposure to component solvent limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular wea Solvents may cause some of the contact with the mixture may ca dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inha Other information There are no data available on the The mixture has been assessed 1272/2008 and classified for tox SECTION 12: Ecological infe	th effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	as mucous men I nervous systemess and in ext by absorption natural fat from a liquid splashe a, diarrhoea a o chronic effect nal routes of ex	mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ed in the eyes may ca nd vomiting. This tak ts of components from	bry system irritation igns include headache, consciousness. peated or prolonged n non-allergic contact ause irritation and tes into account, where m short-term and
limit may result in adverse healt and adverse effects on kidney, I dizziness, fatigue, muscular wea Solvents may cause some of the contact with the mixture may ca dermatitis and absorption throug reversible damage. Ingestion m known, delayed and immediate long-term exposure by oral, inha Other information There are no data available on the The mixture has been assessed 1272/2008 and classified for tox SECTION 12: Ecological infe	th effects such a liver and central akness, drowsir e above effects use removal of gh the skin. The ay cause nause effects and also alation and dern the mixture itsel d following the a	as mucous men I nervous systemess and in ext by absorption natural fat from a liquid splashe a, diarrhoea a o chronic effect nal routes of ex	mbrane and respirato em. Symptoms and s treme cases, loss of through the skin. Re n the skin resulting ir ed in the eyes may ca nd vomiting. This tak ts of components from	bry system irritation igns include headache, consciousness. peated or prolonged n non-allergic contact ause irritation and tes into account, where m short-term and
Other information There are no data available on the mixture has been assessed 1272/2008 and classified for tox	the mixture itsel I following the a	lf.		
There are no data available on the mixture has been assessed 1272/2008 and classified for tox	d following the a			
				tion (EC) No
12.1. Toxicity	ormation			
General information				
There are no data available on t mixture has been assessed follo and is not classified as dangero	owing the summ	nation method		
Fish toxicity (Components)				
1-Methoxy-2-propanol Species go LC0 > Duration of exposure	olden orfe (Leuc 4600 96	ciscus idus) h	mg/l	
Daphnia toxicity (Components				
1-Methoxy-2-propanol				
	aphnia magna			
EC50	23300	h	mg/l	
Duration of exposure	48	h		
Algae toxicity (Components)				
1-Methoxy-2-propanol Species D EC50 > Duration of exposure	esmodesmus 1000 168	h	mg/l	
Bacteria toxicity (Component				
1-Methoxy-2-propanol	ctivated sludge			

MSDS for #82325 - M/	ARABU SKETCH M	ARKER		Page 🐔 rí
Safety data sheet in	accordance with re	egulation (EC) No 1907	2006	
Trade name: Marabu	Sketch Marker Alph	a 6tlg. 991		
		Version: 1/GB		Date revised: 17.02.2020
Substance number:	0148000000101-99	Replaces Version	: -/GB	Print date: 27.02.20
EC50	>	1000	mg/l	
12.2. Persistence	-	lity		
General inform No data avail				
Biodegradabil	ity (Components)		
1-Methoxy-2-p	ropanol			
Value Duration of te	t	90 28 d	%	
evaluation		28 d adily biodegradable (acc	ording to OECD crit	teria)
Method		CD 301 F	J	
12.3. Bioaccumu	-			
General inform				
	data available on th			
Remarks	ficient: n-octanol/	water Not applicable		
12.4. Mobility in s	soil			
General inform	nation			
There are no	data available on th	e mixture itself.		
12.5. Results of F	PBT and vPvB a	ssessment		
General inform	nation			
There are no	data available on th	e mixture itself.		
12.6. Other adver	rse effects			
General inform	nation			
There are no	data available on th	e mixture itself.		
SECTION 13: D	<u>isposal consi</u>	derations		
13.1. Waste treat	ment methods			
Disposal reco	mmendations for	the product		
Do not allow t	to enter drains or wa	iter courses.		
		hould be classified in ac classification of this prod		
EWC waste c			itaining dangerous	
		wastes, the original was		y no longer apply and the
	ode should be assig formation contact vo	ned. ur local waste authority.		
	mmendations for			
Using informa	ation provided in this	safety data sheet, advic	e should be obtain	ed from the relevant waste
5	he classification of e			
		ed or reconditioned. dous waste (waste code	number 150110).	
SECTION 14: Tr	ransport infor	mation		

Page 63 of 78

Substance number: 014800	Version: 7 0000101-991 Replaces \	1 / GB /ersion: - / GB	Date revised: 17.02.2020 Print date: 27.02.20
	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	П	П	П
Special provision	640D		
Limited Quantity	51		
Transport category	3		
14.5. Environmental hazards		no	

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

voc

VOC (EU)

%

Other information

The product does not contain substances of very high concern (SVHC).

90

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

ade name: Marab	u Sketch Marker Alph	a 6tlg. 991	
		Version: 1/GB	Date revised: 17.02.2020
substance number:	0148000000101-991	Replaces Version: - / GB	Print date: 27.02.20
H225	Hig	hly flammable liquid and vapour.	
H226		mmable liquid and vapour.	
H319		uses serious eye irritation.	
H336	-	y cause drowsiness or dizziness.	
-	es listed in Chapte		
Eye Irrit. 2 Flam. Lig. 2		e irritation, Category 2 mmable liquid, Category 2	
Flam. Liq. 2 Flam. Liq. 3		mmable liquid, Category 2 mmable liquid, Category 3	
STOT SE 3		ecific target organ toxicity - single exp	osure. Category 3
	I information	······ ····· ····· ···················	
		the previous version of the safety da	ta sheet are marked with: ***
construed as The product to the suppli As the speci for ensuring The informa	s any guarantee of teo should not be used for er and obtaining writto fic conditions of use of that the requirements tion contained in this	afety and environmental aspects of th chnical performance or suitability for p or purposes other than those shown i en handling instructions. of the product are outside the supplied s of relevant legislation are complied of safety data sheet does not constitute ther health and safety legislation.	particular applications. in Section 1 without first referring r's control, the user is responsible with.

MSDS for #82325 - MARABU \$ Safety data sheet in accorda	SKETCH MAR	KER	Page 😤
ballety data sheet in accorda	nee with rega		
rade name: Marabu Sketch I	Marker Alpha 6	•	Marab
		Version: 1 / GB	Date revised: 17.02.2020
Substance number: 0148000	000101-992	Replaces Version: - / GB	Print date: 27.02.20
SECTION 4. Identified	tion of th	o ouhotonoo/mixturo ono	d of the
company/undertaking		e substance/mixture and	
1.1. Product identifier Marabu Sketch Marke		92	
		substance or mixture and us	ses advised against
Use of the substance/pr			0
Identified Uses			
SU21	Consumer us	ses: Private households (= general p	ublic = consumers)
PC9a		paints, thinners, paint removers	
1.3. Details of the suppl	ier of the sa	afety data sheet	
Address/Manufacture	r		
Marabu GmbH & Co.	KG		
Asperger Strasse 4 71732 Tamm			
Germany			
Telephone no.	+49-7141/69	-	
Fax no.	+49-7141/69		
Information provided by / telephone	Department	product safety	
E-mail address of	PRSI@mara	bu.com	
person responsible for this SDS			
1.4. Emergency telepho	ne number		
(+49) (0)621-60-43333			
ECTION 2: Hazards	identifica	tion	
2.1. Classification of the			
Classification (Regula Classification (Regula		-	
Classification (Regula	Flam. Liq. 2	H225	
	Eye Irrit. 2	H319	
2.2. Label elements			
Labelling according	to regulati	on (EC) No 1272/2008	
Hazard pictograms			
	>		
Signal word			
Danger Hazard statements			
Hazard statements H225	Highly flamm	able liquid and vapour.	
-		bus eye irritation.	
H319	Causes sent		

Page 1(13)

SDS for #82325 - MARABU afety data sheet in accord	ance with regu	lation (EC)	No 190	7/2006			
ade name: Marabu Sketch	Marker Alpha 6	tlg. 992					$\backslash \backslash $
		Version:	1 / GE	3		Date revised:	Marab 17.02.2020
ubstance number: 014800	0000101-992	Replaces	s Versio	on: -/G	В	Print da	ate: 27.02.20
P101	If medical adv	vice is need	ed, hav	e produc	t container	or label at hand.	
P102	Keep out of r						•
P210	sources. No s		tsunac	es, span	ks, open na	ames and other ignit	ion
P264.1	Wash hands	thoroughly a					
P280 P305+P351+P338						otection / face prote	
P305+P351+P338	lenses, if pres					minutes. Remove c	oniaci
P501.9	Dispose of co					te.	
.3. Other hazards		1					
No special hazards h	ave to be menti	oned.					
ECTION 3: Compos	sition/infor	mation o	<u>on in</u>	gredie	<u>ents</u>		
.2. Mixtures							
Hazardous ingredier	nts						
Ethanol							
CAS No. EINECS no.	64-17-5 200-578-6						
Registration no.	01-21194576	10-43					
Concentration	>=	50	<	100	%		
Classification (Regul	ation (EC) No. 1	272/2008)					
	Flam. Liq. 2		H225				
	Eye Irrit. 2		H319				
Concentration limits	Regulation (EC Eye Irrit. 2	No. 1272/2 (H319		50 %			
1-Methoxy-2-propano							
CAS No. EINECS no.	107-98-2 203-539-1						
Registration no.	01-21194574	35-35					
Concentration	>=	10	<	20	%		
Classification (Regul	ation (EC) No. 1	272/2008)					
. 2	STOT SE 3	ŗ	H336				
	Flam. Liq. 3		H226				
ECTION 4: First aid		-					
.1. Description of first	aid measure	25					
General information In all cases of doubt,	or whon sympto	me porciet	sook m		Hontion N	over give on thing h	(mouth
to an unconscious pe							ymoum
After inhalation							
Remove to fresh air, artificial respiration.	keep patient wa	rm and at re	est. If br	eathing i	is irregular	or stopped, adminis	ter
After skin contact							
Remove contaminate cleanser. Do NOT us			ughly w	vith soap	and water	or use recognised s	kin
After eye contact							
						he eyelids apart for a	

MSDS for #82325 - MARABU SKETCH MARKER Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu Sketch Marker Alpha 6tlg. 992

Version: 1/GB

Substance number: 0148000000101-992

Date revised: 17.02.2020 Print date: 27.02.20

ad

minutes and seek immediate medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Replaces Version: - / GB

4.2. Most important symptoms and effects, both acute and delayed Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks

	IARABU SKETCH	MARKER			Page	
Safety data sheet in	accordance with	regulation	(EC) No 1907/2	006		
Frade name: Marab	u Sketch Marker Al	nha 6tla 99	12			\mathbb{N}
			rsion: 1/GB		Date revised: 17.02.2	Marabu 2020
Substance number:	0148000000101-9		places Version:	- / GB	Print date: 27.0	
particulates be prohibited container is Comply with	and spray mist aris d in application area	ing from the a. For perso sel. Always ety at work	e application of the application	his mixture. Smo ee Section 8. Ne ers of same mate	tact. Avoid the inhalation of king, eating and drinking shaver use pressure to empty: rial as the original one. s or water courses.	all
=	-		-	Vapours may fo	rm explosive mixtures with	
	n of fires / tempe	erature cla	ss / lanition a	roup / Dust ex	plosion class	
Classification Temperature	n of fires B		ble liquid substa	-		
7.2. Conditions f	or safe storage	e, includi	ng any incon	npatibilities		
	s for storage roo	-	• •	•		
Electrical ins standards. S	stallations/working r	materials m nich filling o	ust comply with t		technological safety a conducting floor. Store in	
Hints on stor	age assembly					
Store away f	from oxidising ager	nts, from str	ongly alkaline an	nd strongly acid r	naterials.	
			15 and 30 °C in	a dry, well ventil	ated place away from	
sources of h No smoking.		sed access	container tightly c	losed. Keep awa	ay from sources of ignition. nust be carefully resealed an	d
sources of h No smoking.	Prevent unauthori to prevent leakage	sed access	container tightly c	losed. Keep awa	ay from sources of ignition.	d
sources of h No smoking. kept upright 7.3. Specific enc Paint	Prevent unauthori to prevent leakage I use(s)	sed access	container tightly c . Containers whic	closed. Keep awa ch are opened m	ay from sources of ignition.	ıd
sources of h No smoking. kept upright 7.3. Specific enc Paint SECTION 8: Ex	Prevent unauthori to prevent leakage I use(s) posure cont	sed access	container tightly c . Containers whic	closed. Keep awa ch are opened m	ay from sources of ignition.	d
sources of h No smoking. kept upright 7.3. Specific enc	Prevent unauthori to prevent leakage I use(s) CPOSURE CONT Ameters	sed access	container tightly c . Containers whic	closed. Keep awa ch are opened m	ay from sources of ignition.	d
sources of h No smoking. kept upright 7.3. Specific end Paint SECTION 8: Ex 8.1. Control para	Prevent unauthori to prevent leakage I use(s) CPOSURE CONT Ameters	sed access	container tightly c . Containers whic	closed. Keep awa ch are opened m	ay from sources of ignition.	ıd
sources of h No smoking. kept upright 7.3. Specific end Paint SECTION 8: Ex 8.1. Control para Exposure lim Ethanol List Type Value	Prevent unauthori to prevent leakage I use(s) (posure cont ameters it values	sed access	container tightly c . Containers whic	closed. Keep awa ch are opened m	ay from sources of ignition.	ıd
sources of h No smoking. kept upright 7.3. Specific end Paint SECTION 8: Ex 8.1. Control para Exposure lim Ethanol List Type Value Status: 2011	Prevent unauthori to prevent leakage I use(s) (posure cont ameters it values	rols/per EH40 WEL	container tightly c . Containers whit Sonal prote	closed. Keep awa ch are opened m ection	ay from sources of ignition. fust be carefully resealed an	ıd
sources of h No smoking. kept upright 7.3. Specific end Paint 5ECTION 8: Ex 8.1. Control para Exposure lim List Type Value Status: 2011 1-Methoxy-2- List Type	Prevent unauthori to prevent leakage I use(s) (posure cont ameters it values	EH40 WEL 1920 EH40 WEL	ontainer tightly c . Containers whic sonal prote	closed. Keep awa ch are opened m ection 1000	ay from sources of ignition. hust be carefully resealed an ppm(V)	ıd
sources of h No smoking. kept upright 7.3. Specific end Paint 5ECTION 8: Ex 8.1. Control para Exposure lim List Type Value Status: 2011 1-Methoxy-2- List Type Value Short term e	Prevent unauthori to prevent leakage I use(s) (posure cont ameters it values	EH40 WEL 1920 EH40 WEL 375 560	container tightly c . Containers whit Sonal prote	closed. Keep awa ch are opened m ection	ay from sources of ignition. fust be carefully resealed an	ıd
sources of h No smoking. kept upright 7.3. Specific end Paint 5ECTION 8: Ex 8.1. Control para Exposure lim Ethanol List Type Value Status: 2011 1-Methoxy-2- List Type Value Short term e Skin resorpti	Prevent unauthori to prevent leakage I use(s) (posure cont ameters it values propanol	EH40 WEL 1920 EH40 WEL 375 560 : Sk; Stat	mg/m ³ mg/m ³ us: 2011	closed. Keep awa ch are opened m <u>ection</u> 1000 100	ay from sources of ignition. hust be carefully resealed an ppm(V) ppm(V)	ıd
sources of h No smoking. kept upright 7.3. Specific end Paint 5ECTION 8: Ex 8.1. Control para Exposure lim Ethanol List Type Value Status: 2011 1-Methoxy-2- List Type Value Short term e Skin resorpti	Prevent unauthori to prevent leakage I use(s) COSURE CONT Ameters it values propanol	EH40 WEL 1920 EH40 WEL 375 560 : Sk; Stat	mg/m ³ mg/m ³ us: 2011	closed. Keep awa ch are opened m <u>ection</u> 1000 100	ay from sources of ignition. hust be carefully resealed an ppm(V) ppm(V)	ıd
sources of h No smoking. kept upright 7.3. Specific end Paint 5ECTION 8: Ex 8.1. Control para Exposure lim Ethanol List Type Value Status: 2011 1-Methoxy-2- List Type Value Short term e Skin resorpti Derived No/M Ethanol Type of valu Reference g Duration of e	Prevent unauthori to prevent leakage I use(s) COSURE CONT Ameters it values propanol exposure limit ion / sensibilisation linimal Effect Le e roup exposure	EH40 WEL 1920 EH40 WEL 375 560 : Sk; Stat vels (DNE Derived N Worker Long term	mg/m ³ mg/m ³ mg/m ³ us: 2011 L/DMEL)	closed. Keep awa ch are opened m ection 1000 100 150	ay from sources of ignition. hust be carefully resealed an ppm(V) ppm(V)	ıd
sources of h No smoking. kept upright 7.3. Specific end Paint SECTION 8: Ex 8.1. Control para Exposure lim Ethanol List Type Value Status: 2011 1-Methoxy-2- List Type Value Short term e Skin resorpti Derived No/M Ethanol Type of valu Reference g	Prevent unauthori to prevent leakage i use(s) (posure cont ameters it values propanol exposure limit ion / sensibilisation linimal Effect Le e roup exposure oosure on	EH40 WEL 1920 EH40 WEL 375 560 : Sk; Stat vels (DNE Derived N Worker Long term inhalative Systemic	mg/m ³ mg/m ³ mg/m ³ mg/m ³ us: 2011 L/DMEL)	closed. Keep awa ch are opened m ection 1000 100 150 DNEL)	ay from sources of ignition. hust be carefully resealed an ppm(V) ppm(V)	ıd

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Safety data sheet in accordance v				
rade name: Marabu Sketch Marke	r Alpha 6tlg. 992 Version: 1		Mara Date revised: 17.02.202	
Substance number: 014800000010		/ersion: -/GB	Print date: 27.02.20	
Substance number. 01480000010	T-992 Replaces V			
Duration of exposure	Short term			
Route of exposure Mode of action	inhalative Local effects			
Concentration	1900		mg/m³	
	Derived Ne. Effect		<u> </u>	
Type of value Reference group	Derived No Effect Worker	Level (DNEL)		
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	343		mg/kg/d	
	Darived No. Effect			
Type of value Reference group	Derived No Effect Consumer			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	114		mg/m³	
Type of value	Derived No Effect	Level (DNFL)		
Reference group	Consumer			
Duration of exposure	Short term			
Route of exposure	inhalative			
Mode of action	Local effects			
Concentration	950		mg/m³	
Type of value	Derived No Effect	Level (DNEL)		
Reference group	Consumer	/		
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	206		mg/kg/d	
Type of value	Derived No Effect	Level (DNEL)		
Reference group	Consumer	· · ·		
Duration of exposure	Long term			
Route of exposure	oral			
Mode of action	Systemic effects			
Concentration	87		mg/kg/d	
1-Methoxy-2-propanol				
Type of value	Derived No Effect	Level (DNEL)		
Reference group	Worker			
Duration of exposure	Acute			
Route of exposure	inhalative			
Mode of action	Local effects			
Concentration	553,5		mg/m³	
Type of value	Derived No Effect	Level (DNEL)		
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	50,6		mg/person/ d	
			4	
Type of value	Derived No Effect	Level (DNEL)		

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Frede nome: Marshy Olistati M. J				
Trade name: Marabu Sketch Marke	r Alpha 6	-	Marab	
		Version: 1/GB	Date revised: 17.02.2020 Print date: 27.02.20	
Substance number: 014800000010	1-992	Replaces Version: - / GB		
Reference group	Wor	ker		
Duration of exposure	Lon	g term		
Route of exposure	inha	lative		
Mode of action	Syst	emic effects		
Concentration		369	mg/m³	
Type of value	Deri	ved No Effect Level (DNEL)		
Reference group	Gen	eral Population		
Duration of exposure	Lon	g term		
Route of exposure	derr	nal		
Mode of action	Syst	emic effects		
Concentration	-	18,1	mg/kg	
Type of value	Deri	ved No Effect Level (DNEL)		
Reference group		eral Population		
Duration of exposure		g term		
Route of exposure		lative		
Mode of action		temic effects		
Concentration	Cyc	43,9	mg/m³	
Type of value	Deri	ved No Effect Level (DNEL)		
Reference group		eral Population		
Duration of exposure		g term		
Route of exposure	oral			
Mode of action		emic effects		
Concentration	Cy3	3,3	mg/kg/d	
Predicted No Effect Conce	ntration	(PNEC)		
Ethanol				
Type of value	PNE	-		
Туре	Fres	shwater		
Concentration		0,96	mg/l	
Type of value	PNE	C		
Туре	Salt	water		
Concentration		0,79	mg/l	
Type of value	PNE	C		
Туре	Wat	er (intermittent release)		
Concentration		2,75	mg/l	
Type of value	PNE	C		
Type		age treatment plant (STP)		
Concentration		580	mg/l	
Type of value	PNE	EC.		
		shwater sediment		
Concentration	1100	3,6	mg/kg	
Type of value	PNE	in the second		
Type		ine sediment		
Concentration	ividi	2,9	mg/kg	
		C.		
Type of value	PNE	:0		
Turno				
Type Concentration	Soil	0,63	mg/kg	

DS for #82325 - MARABU SKE ety data sheet in accordance de name: Marabu Sketch Mark	with regulati	on (EC) No 1907/2006	Page T
		Version: 1/GB	Date revised: 17.02.202
ostance number: 0148000000	101-992	Replaces Version: - / GB	Print date: 27.02.2
1-Methoxy-2-propanol			
Type of value	PNEC		
Type Concentration	Freshw	vater 10	mg/l
Type of value	PNEC		
Туре	Water		
Concentration		41,6	mg/kg
Type of value	PNEC		
Type	Sedime		malka
Concentration		41,6	mg/kg
Type of value	PNEC		
Type Concentration	Marine	sediment 4,17	mg/kg
Concentration		-, , , ,	iiig/kg
Type of value	PNEC		
Type Concentration	Soil	2,47	mg/kg
		_,	····ਚ····ਚ
Type of value	PNEC		
Type Concentration	Sewag	e treatment plant (STP) 100	mg/l
exhaust ventilation and go	od general ex	traction. If these are not suffic	d be achieved by the use of local ient to maintain concentrations of
	apour below th	e OEL, suitable respiratory pr	otection must be worn.
particulates and solvent va			
Respiratory protection If workers are exposed to		s above the exposure limit the	y must use appropriate, certified
Respiratory protection If workers are exposed to respirators. Full mask, filte		s above the exposure limit the	y must use appropriate, certified
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection	er A		
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove mat individual or combination of	er A erial or combi of chemicals.	nation of materials that will giv	e unlimited resistance to any
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove mat individual or combination of For prolonged or repeated Material thickness	er A eerial or combi of chemicals. I handling nitril > 0,	nation of materials that will giv e rubber gloves with textile ur 5 mm	e unlimited resistance to any
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove mat individual or combination of For prolonged or repeated Material thickness Breakthrough time	er A terial or combi of chemicals. I handling nitril > 0, < 30	nation of materials that will giv e rubber gloves with textile ur 5 mm) min	e unlimited resistance to any adergloves are required.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove mati individual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time mu The instructions and inform	er A terial or combi of chemicals. I handling nitrii > 0, < 30 ust be greater mation provide	nation of materials that will giv e rubber gloves with textile ur 5 mm) min than the end use time of the p	e unlimited resistance to any adergloves are required.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove mati individual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time mut The instructions and inform replacement must be follo	er A terial or combi- of chemicals. I handling nitril > 0, < 30 ust be greater nation provide wed.	nation of materials that will giv e rubber gloves with textile ur 5 mm) min than the end use time of the p	re unlimited resistance to any ndergloves are required. roduct. on use, storage, maintenance and
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove mati individual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time mut The instructions and inform replacement must be follo Gloves should be replaced Always ensure that gloves	er A terial or combi- of chemicals. I handling nitril > 0, < 30 ust be greater mation provide wed. d regularly and are free from	nation of materials that will giv e rubber gloves with textile ur 5 mm han the end use time of the p d by the glove manufacturer of l if there is any sign of damag defects and that they are stor	re unlimited resistance to any idergloves are required. roduct. on use, storage, maintenance and e to the glove material. ed and used correctly.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove mati individual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time mut The instructions and information replacement must be follo Gloves should be replaced Always ensure that gloves The performance or effect maintenance.	er A terial or combi- of chemicals. I handling nitril > 0, < 30 ust be greater mation provide wed. d regularly and s are free from iveness of the	nation of materials that will giv e rubber gloves with textile ur 5 mm than the end use time of the p d by the glove manufacturer of l if there is any sign of damage defects and that they are stor glove may be reduced by phy	re unlimited resistance to any indergloves are required. roduct. on use, storage, maintenance and e to the glove material.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove mati individual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time mut The instructions and inform replacement must be follo Gloves should be replaced Always ensure that gloves The performance or effect maintenance. Barrier creams may help to once exposure has occurr	er A terial or combi- of chemicals. I handling nitril > 0, < 30 ust be greater mation provide wed. d regularly and s are free from iveness of the o protect the e	nation of materials that will giv e rubber gloves with textile ur 5 mm than the end use time of the p d by the glove manufacturer of l if there is any sign of damage defects and that they are stor glove may be reduced by phy	e unlimited resistance to any adergloves are required. roduct. on use, storage, maintenance and e to the glove material. ed and used correctly. rsical/ chemical damage and poor
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove matindividual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time muther The instructions and information Gloves should be replaced Always ensure that gloves The performance or effect maintenance. Barrier creams may help to once exposure has occurr	er A terial or combi- of chemicals. I handling nitril > 0, < 30 ust be greater mation provide wed. d regularly and are free from iveness of the o protect the e ed.	nation of materials that will giv e rubber gloves with textile ur 5 mm than the end use time of the p d by the glove manufacturer of l if there is any sign of damage defects and that they are stor glove may be reduced by phy exposed areas of the skin, they	e unlimited resistance to any adergloves are required. roduct. on use, storage, maintenance and e to the glove material. ed and used correctly. rsical/ chemical damage and poor
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove matindividual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time muther The instructions and information Gloves should be replaced Always ensure that gloves The performance or effect maintenance. Barrier creams may help to once exposure has occurr	er A terial or combi- of chemicals. I handling nitril > 0, < 30 ust be greater mation provide wed. d regularly and are free from iveness of the o protect the e ed.	nation of materials that will giv e rubber gloves with textile ur 5 mm than the end use time of the p d by the glove manufacturer of l if there is any sign of damage defects and that they are stor glove may be reduced by phy exposed areas of the skin, they	e unlimited resistance to any adergloves are required. roduct. on use, storage, maintenance and e to the glove material. ed and used correctly. rsical/ chemical damage and poor
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove matindividual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time muture The breakthrough time muture The instructions and information Gloves should be replaced Always ensure that gloves The performance or effect maintenance. Barrier creams may help to once exposure has occurre Eye protection Use safety eyewear designed	er A terial or combi- of chemicals. I handling nitril > 0, < 30 ust be greater mation provide wed. d regularly and are free from iveness of the o protect the e ed. ned to protect	nation of materials that will giv e rubber gloves with textile ur 5 mm than the end use time of the p d by the glove manufacturer of l if there is any sign of damage defects and that they are stor glove may be reduced by phy exposed areas of the skin, they	e unlimited resistance to any adergloves are required. roduct. on use, storage, maintenance and e to the glove material. ed and used correctly. rsical/ chemical damage and poor

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rade name: Marabu Sketch Marker A	lpha 6tlo	. 992			
	.price ettig	Version:	1 / GB		Date revised: 17.02.2020
Substance number: 0148000000101-	992	Replaces \	/ersion: -/GB		Print date: 27.02.2
9.1. Information on basic phys			al properties	5	
Form Colour	Liquid				
Odour	grey solver	nt-liko			
Odour threshold	301701	it-like			
Remarks	No da	ta available			
	no ua	ta avaliable			
pH value Remarks	Not or	plicable			
	ποι αι	plicable			
Melting point Remarks	not do	termined			
	not de	termineu			
Freezing point Remarks	not do	termined			
Initial boiling point and boilin				*	
Value	appr.	78		°C	
Flash point		10		° 0	
Value		12		°C	
Evaporation rate (ether = 1) :					
Remarks	not de	termined			
Flammability (solid, gas)					
Not applicable					
Upper/lower flammability or o	explosi				
Lower explosion limit Upper explosion limit	appr.	1,5		%(V)	
Source	appr. Literat	15 ure value		%(V)	
Vapour pressure	Enora				
Value	appr.	59		hPa	
Vapour density	uppi.	00		in a	
Remarks	not de	termined			
Density	not de				
Remarks	not de	termined			
Solubility in water	not de	termineu			
Remarks	nartial	ly miscible			
Partition coefficient: n-octan					
Remarks		plicable			
	ποιαμ	plicable			
Ignition temperature Value	appr	287		°C	
Source	appr. Literat	∠o7 ure value		C	
Efflux time	2.101.4				
Value	<	12		s	
Temperature	-	20	°C	-	
Method	DIN 5	3211 4 mm			
Explosive properties					
evaluation	no				
Oxidising properties					
evaluation	None	known			

MSDS for #82325 - MARABU SKET	CH MARI	KER	Page
Safety data sheet in accordance v	with regu	lation (EC) No 1907/2006	
Frade name: Marabu Sketch Marke	ar Alnha 6	stla 992	
		Version: 1/GB	Date revised: 17.02.2020
Substance sumbary 0140000001	04.000		Print date: 27.02.20
Substance number: 01480000001	01-992	Replaces Version: - / GB	Finit date: 27.02.20
Other information			
The physical specifications	are appro	oximate values and refer to the	used safety relevant component(s).
SECTION 10: Stability an	d reac	tivity	
10.1. Reactivity No hazardous reactions wh	en stored	l and handled according to pres	scribed instructions.
10.2. Chemical stability	d storage	and handling conditions (see so	ection 7)
	0	U	
10.3. Possibility of hazardou Keep away from oxidising a exothermic reactions.		rongly alkaline and strongly acid	d materials in order to avoid
10.4. Conditions to avoid When exposed to high temp	peratures	may produce hazardous decor	mposition products.
10.5. Incompatible materials		l and handled according to pres	perihad instructions
			scribed instructions.
10.6. Hazardous decomposi See chapter 5.2 (Firefightin		res - Special hazards arising fro	om the substance or mixture).
SECTION 11. Toxicologi	ool infe	ormation	
SECTION 11: Toxicologi	cal info	ormation	
SECTION 11: Toxicologic 11.1. Information on toxicologic			
11.1. Information on toxicol	ogical e		ation criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks	ogical e Based	effects	ation criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp	ogical e Based	effects	ation criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol	ogical e Based	effects	ation criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Comp	ogical e Based onents)	effects	ation criteria are not met. mg/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50	ogical e Based onents)	effects on available data, the classifica	
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compe 1-Methoxy-2-propanol Species	ogical e Based onents) rat	effects on available data, the classifica	mg/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	ogical e Based onents) rat Based	effects on available data, the classifica 5200 on available data, the classifica	mg/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com	ogical e Based onents) rat Based	effects on available data, the classifica 5200 on available data, the classifica	mg/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol	ogical e Based onents) rat Based	effects on available data, the classifica 5200 on available data, the classifica	mg/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com	ogical e Based onents) rat Based mponen	effects on available data, the classifica 5200 on available data, the classifica	mg/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Con 1-Methoxy-2-propanol Species LD50	ogical e Based onents) rat Based mponen rabbit	effects on available data, the classifica 5200 on available data, the classifica ts)	mg/kg ation criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species	ogical e Based onents) rat Based mponen rabbit	effects on available data, the classifica 5200 on available data, the classifica ts) 14000	mg/kg ation criteria are not met. mg/kg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks	ogical e Based onents) rat Based mponen rabbit	effects on available data, the classifica 5200 on available data, the classifica ts)	mg/kg ation criteria are not met. mg/kg
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation	ogical e Based onents) rat Based mponen rabbit	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met.
 11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Composite of the second o	ogical e Based onents) rat Based mponen rabbit Based Based	effects on available data, the classifica 5200 on available data, the classifica ts) 14000	mg/kg ation criteria are not met. mg/kg ation criteria are not met.
11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritation	ogical e Based onents) rat Based mponen rabbit Based tion	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met.
 11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Composite of the second o	ogical e Based onents) rat Based mponen rabbit Based Based tion irritant	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met.
 11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Composite of the second o	ogical e Based onents) rat Based mponen rabbit Based Based tion irritant	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met.
 11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Composite of the second o	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met. ation criteria are not met.
 11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Composite of the second of	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met. ation criteria are not met.
 11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Composite of the second of	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica on available data, the classifica assification criteria are met. on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met. ation criteria are not met.
 11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization Remarks Mutagenicity Remarks 	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met. ation criteria are not met.
 11.1. Information on toxicole Acute oral toxicity Remarks Acute oral toxicity (Composite of the second of	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based Based	effects on available data, the classifica 5200 on available data, the classifica ts) 14000 on available data, the classifica on available data, the classifica assification criteria are met. on available data, the classifica	mg/kg ation criteria are not met. mg/kg ation criteria are not met. ation criteria are not met. ation criteria are not met.

MSDS for #82325 - MARABU SKET	CH MAR	KER			Page 77 1
Safety data sheet in accordance	with regul	lation (EC)) No 1907/2 ()06	
Trade name: Marabu Sketch Marke	er Alpha 6	tlg. 992			
	•	-	: 1/GB		Date revised: 17.02.2020
Substance number: 01480000001	01-992	Replace	es Version:	- / GB	Print date: 27.02.20
Carcinogenicity					
Remarks			e data, the c	lassification crit	teria are not met.
Specific Target Organ To:	kicity (ST	ГОТ)			
Single exposure	- ·				
Remarks	Based	on availabl	e data, the c	classification crit	teria are not met.
Repeated exposure Remarks	Based	on availabl	e data, the c	lassification crit	teria are not met.
Aspiration hazard					
Based on available data, th	ne classific	ation criter	ia are not m	et.	
Experience in practice	h (ated occupational exposure
dizziness, fatigue, muscula Solvents may cause some contact with the mixture ma dermatitis and absorption t	ney, liver a r weaknes of the abo ay cause re hrough the on may ca diate effect	and central ss, drowsin we effects emoval of r skin. The use nause ts and also	nervous sys ess and in e by absorptio natural fat fro liquid splash a, diarrhoea chronic effe	tem. Symptoms xtreme cases, lo n through the sl om the skin resu ned in the eyes and vomiting. T octs of compone	s and signs include headache, oss of consciousness. kin. Repeated or prolonged ulting in non-allergic contact may cause irritation and his takes into account, where nts from short-term and
Other information	,				,
There are no data available					Degulation (FC) No
The mixture has been asse 1272/2008 and classified for					Regulation (EC) No
SECTION 12: Ecological	inform	<u>ation</u>			
12.1. Toxicity					
General information					
There are no data available mixture has been assessed and is not classified as dar	d following	the summ	ation metho		s or water courses.The gulation (EC) No 1272/2008
Fish toxicity (Component	s)				
1-Methoxy-2-propanol		, ,,			
Species LC0	golden >	orfe (Leuc 4600	iscus idus)	mg/l	
Duration of exposure	-	4000 96	h	iiig/i	
Daphnia toxicity (Compor	nents)				
1-Methoxy-2-propanol					
Species	Daphni	a magna			
EC50 Duration of exposure		23300 48	h	mg/l	
Algae toxicity (Componer	nts)	-			
1-Methoxy-2-propanol					
Species		desmus			
EC50 Duration of exposure	>	1000 168	h	mg/l	
Bacteria toxicity (Compor	nents)	100			
1-Methoxy-2-propanol					
Species	activate	ed sludge			

MSDS for #82325 - M/	ARABU SKETCH I	MARKER		Page 72 of 1
Safety data sheet in	accordance with	regulation (EC) No 1907	/2006	
Trade name: Marabu	Sketch Marker Alp	oha 6tlg. 992		
		Version: 1/GB		Date revised: 17.02.2020
Substance number:	0148000000101-99	92 Replaces Versior	n: -/GB	Print date: 27.02.20
EC50	>	1000	mg/l	
12.2. Persistence	-	ility		
General inform No data avail				
Biodegradabil	ity (Component	s)		
1-Methoxy-2-p	ropanol			
Value Duration of te	set	90 28 d	%	
evaluation		28 d eadily biodegradable (acc	ording to OECD crit	eria)
Method		ECD 301 F	3	/
12.3. Bioaccumu	lative potentia			
General inform				
	data available on t			
Remarks	ficient: n-octano	Not applicable		
12.4. Mobility in s	soil			
General inform	nation			
There are no	data available on t	he mixture itself.		
12.5. Results of F	PBT and vPvB	assessment		
General inform	nation			
There are no	data available on t	he mixture itself.		
12.6. Other adver	rse effects			
General inform	nation			
There are no	data available on t	he mixture itself.		
SECTION 13: D	isposal cons	iderations		
13.1. Waste treat	ment methods			
Disposal reco	mmendations fo	or the product		
	to enter drains or v			
		should be classified in ac classification of this proc		
EWC waste c			ntaining dangerous	
			ste product code ma	y no longer apply and the
	ode should be ass formation contact v	gned. our local waste authority.		
	mmendations fo			
Using informa	ation provided in th	is safety data sheet, advi	ce should be obtaine	ed from the relevant waste
5	he classification of			
		ped or reconditioned. ardous waste (waste code	e number 150110).	
SECTION 14: Tr	ransport info	rmation		
1				

ansport D/IATA
263
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3
3
11

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

voc

VOC (EU)

%

Other information

The product does not contain substances of very high concern (SVHC).

90

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

rade name: Marab	u Sketch Marker Alpl	ha 6tlg. 992	
		Version: 1/GB	Date revised: 17.02.2020
Substance number:	0148000000101-99	2 Replaces Version: - / GB	Print date: 27.02.20
H225		phly flammable liquid and vapour.	
H226		mmable liquid and vapour.	
H319 H336		uses serious eye irritation. Ay cause drowsiness or dizziness.	
		-	
-	es listed in Chapt		
Eye Irrit. 2 Flam. Lig. 2		e irritation, Category 2 Immable liquid, Category 2	
Flam. Liq. 2 Flam. Liq. 3		immable liquid, Category 2	
STOT SE 3		ecific target organ toxicity - single ex	posure. Category 3
	l information		
		n the previous version of the safety d	ata sheet are marked with: ***
construed as The product to the suppli As the speci for ensuring The informa	s any guarantee of te should not be used t er and obtaining writ fic conditions of use that the requirement tion contained in this	afety and environmental aspects of the chinical performance or suitability for for purposes other than those shown ten handling instructions. of the product are outside the supplied s of relevant legislation are complied safety data sheet does not constitute ther health and safety legislation.	r particular applications. in Section 1 without first referring er's control, the user is responsible I with.