MSDS for #82325 - MARA	BU SKETCH MAR	KER	82325-1003 Page 1 -
Safety data sheet in acc	ordance with regu	lation (EC) No 1907/2006	
rade name: Marabu Ske	tch Marker Heat 6t	la 936	
	ton marker rieat of	Version: 1/GB	Marab Date revised: 12.02.2020
Substance number: 0148	2000000102-936	Replaces Version: - / GB	Print date: 27.02.20
	000000102-930		
		• • • • •	
		e substance/mixture a	nd of the
ompany/undertal			
I.1. Product identifie Marabu Sketch M	<b>er</b> larker Heat 6tlg. 930	6	
	-	substance or mixture and	uses advised against
Jse of the substanc	e/preparation		
Paint Identified Uses			
SU21	Consumer us	ses: Private households (= genera	al public = consumers)
PC9a		l paints, thinners, paint removers	
.3. Details of the su	pplier of the sa	afety data sheet	
Address/Manufac	turer		
Marabu GmbH &			
Asperger Strasse	4		
71732 Tamm Germany			
Telephone no.	+49-7141/69 <sup>-</sup>	1-0	
Fax no.	+49-7141/69		
Information provid by / telephone	ded Department p	oroduct safety	
E-mail address of	PRSI@maral	ou.com	
person responsib	e		
for this SDS			
1.4. Emergency tele			
(+49) (0)621-60-4	3333		
ECTION 2: Hazar	ds identificat	tion	
2.1. Classification of	the substance	e or mixture	
Classification (Re	gulation (EC) No	o. 1272/2008)	
-	gulation (EC) No. 1	-	
	Flam. Liq. 2	H225	
	Eye Irrit. 2	H319	
2.2. Label elements			
-		on (EC) No 1272/2008	
Hazard pictogram	S		
	$\mathbf{}$		
	!>		
	$\checkmark$		
Signal word			
_			
Danger	c		
Danger Hazard statement	-	able liquid and vanour	
Danger	Highly flamm	able liquid and vapour. us eye irritation.	

Page 1(13)

SDS for #82325 - MARABU <del>afety data sheet in accord</del>	ance with regul	ation (EC)	<del>No 19</del> 0	7/2006			
ade name: Marabu Sketch	Marker Heat 6tl	g. 936					$\mathbb{N}$
		Version:	1 / GI	3		Date revised:	Marabu 12.02.2020
ubstance number: 014800	0000102-936	Replace	s Versio	on: -/G	В		ate: 27.02.20
P101				e produc	t container	or label at hand.	
P102 P210	Keep out of re			non onor	ka anan fir	ames and other ignit	ion
F210	sources. No s		n sunat	es, span	ks, open na	anes and other ignit	
P264.1	Wash hands	thoroughly	after ha	ndling.	,		
P280 P305+P351+P338						otection / face protection / face protection / face protection	
	lenses, if pres	ent and ea	sy to do	. Continu	ue rinsing.		ontaot
P501.9	Dispose of co	ntents / cor	ntainer	as proble	matic wast	e.	
3. Other hazards	ovo to ho monti	anad					
No special hazards h	lave to be mentio	Shed.					
ECTION 3: Compos	sition/infor	mation o	on in	gredie	<u>nts</u>		
2. Mixtures							
Hazardous ingredier	nts						
Ethanol	04475						
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.	107-98-2						
EINECS no. Registration no.	203-539-1 01-21194574	35-35					
Concentration	>=	10	<	20	%		
Classification (Regul	ation (EC) No. 1	272/2008)					
Classification (regul	STOT SE 3	272/2000)	H336				
	Flam. Liq. 3		H226				
CTION 4. First aid							
ECTION 4: First aid 1. Description of first							
General information	alu measure	5					
In all cases of doubt,	or when sympto	me narsist	sook n	nedical at	tention Ne	wer aive anything by	(mouth
to an unconscious pe							mouth
After inhalation							
Remove to fresh air, artificial respiration.	keep patient wa	rm and at re	est. If b	reathing i	s irregular	or stopped, adminis	ter
After skin contact							
Remove contaminate cleanser. Do NOT us			oughly v	vith soap	and water	or use recognised s	kin
After eye contact							
							at least 10

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

Trade name: Marabu Sketch Marker Heat 6tlg. 936

Version: 1/GB

000102-936 Replaces Version: - / GB

Substance number: 0148000000102-936

Date revised: 12.02.2020 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.

**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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-	ee with regula		2000		
rade name: Marabu Sketch M	arker Heat 6tlg	. 936			
		Version: 1 / GB		Date revised:	12.02.2020
Substance number: 01480000	00102-936	Replaces Version:	- / GB	Print dat	e: 27.02.20
and open flame. No spa particulates and spray r be prohibited in applica container is not a press Comply with the health	mist arising fron tion area. For p sure vessel. Alw and safety at w	n the application of personal protection s vays keep in contain vork laws. Do not all	this mixture. Smo see Section 8. Ne ers of same mate	king, eating and drink ver use pressure to e rial as the original on	ting shall mpty:
Advice on protection a Vapours are heavier tha air.	-		. Vapours may for	m explosive mixtures	s with
Classification of fires /	temperature	class / Ignition (	aroun / Dust ex	nlosion class	
Classification of fires Temperature class	-	oustible liquid substa			
7.2. Conditions for safe s	storage, incl	uding any inco	mpatibilities		
Requirements for stora	age rooms ar	nd vessels			
Electrical installations/w standards. Storage room accordance with nation	ms in which fillii				ore in
Hints on storage asser	mbly				
Store away from oxidisi	ing agents, from	n strongly alkaline a	nd strongly acid n	naterials.	
Further information on	i storage con	ditions			
Observe label precaution sources of heat and direct No smoking. Prevent un kept upright to prevent	ect sunlight. Ke nauthorised acc	ep container tightly	closed. Keep awa	ay from sources of igr	nition.
	icanago.				
Paint					
Paint	controls/	personal prot	ection		
Paint ECTION 8: Exposure	controls/	personal prot	<u>ection</u>		
Paint ECTION 8: Exposure 8.1. Control parameters	controls/j	personal prot	<u>ection</u>		
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values	<u>controls/j</u>	<u>personal prot</u>	<u>ection</u>		
Paint SECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol			<u>ection</u>		
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List	EH40		<u>ection</u>		
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol		)	<u>ection</u> 1000	ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type	EH40 WEL	)		ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol	EH40 WEL 1920	) mg/m³		ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List	EH40 WEL 1920 EH40	) mg/m³		ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type	EH40 WEL 1920 EH40 WEL	) mg/m³ )	1000		
Paint ECTION 8: Exposure 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	) mg/m³ ) mg/m³	1000	ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim	EH40 WEL 1920 EH40 WEL 375 nit 560	) mg/m³ ) mg/m³ mg/m³	1000		
Paint SECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim Skin resorption / sensib	EH40 WEL 1920 EH40 WEL 375 nit 560 villisation: Sk;	) mg/m³ ) mg/m³ Status: 2011	1000	ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim Skin resorption / sensib Derived No/Minimal Effettion	EH40 WEL 1920 EH40 WEL 375 nit 560 villisation: Sk;	) mg/m³ ) mg/m³ Status: 2011	1000	ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim Skin resorption / sensib Derived No/Minimal Eff Ethanol	EH40 WEL 1920 EH40 WEL 375 nit 560 oilisation: Sk; <b>fect Levels (E</b>	) mg/m³ ) mg/m³ Status: 2011 <b>DNEL/DMEL)</b>	1000 100 150	ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim Skin resorption / sensib Derived No/Minimal Eff Ethanol Type of value	EH40 WEL 1920 EH40 WEL 375 nit 560 oilisation: Sk; <b>fect Levels (E</b>	) mg/m <sup>3</sup> ) mg/m <sup>3</sup> Status: 2011 <b>DNEL/DMEL)</b> red No Effect Level (	1000 100 150	ppm(V)	
Paint ECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim Skin resorption / sensib Derived No/Minimal Eff Ethanol	EH40 WEL 1920 EH40 WEL 375 nit 560 pilisation: Sk; <b>fect Levels (E</b> Deriv	) mg/m <sup>3</sup> mg/m <sup>3</sup> Status: 2011 <b>DNEL/DMEL)</b> red No Effect Level (	1000 100 150	ppm(V)	
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Paint SECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim Skin resorption / sensib Derived No/Minimal Eff Ethanol Type of value Reference group Duration of exposure	EH40 WEL 1920 EH40 WEL 375 nit 560 villisation: Sk; <b>fect Levels (E</b> Deriv Work Long inhala	) mg/m <sup>3</sup> mg/m <sup>3</sup> Status: 2011 <b>DNEL/DMEL)</b> red No Effect Level ( ter term	1000 100 150	ppm(V)	
SECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim Skin resorption / sensib Derived No/Minimal Eff Ethanol Type of value Reference group Duration of exposure Route of exposure	EH40 WEL 1920 EH40 WEL 375 nit 560 villisation: Sk; <b>fect Levels (E</b> Deriv Work Long inhala	) mg/m <sup>3</sup> mg/m <sup>3</sup> Status: 2011 <b>DNEL/DMEL)</b> red No Effect Level ( ser term ative	1000 100 150 (DNEL)	ppm(V)	
Paint SECTION 8: Exposure 8.1. Control parameters Exposure limit values Ethanol List Type Value Status: 2011 1-Methoxy-2-propanol List Type Value Short term exposure lim Skin resorption / sensib Derived No/Minimal Eff Ethanol Type of value Reference group Duration of exposure Route of exposure Mode of action	EH40 WEL 1920 EH40 WEL 375 oillisation: Sk; <b>fect Levels (I</b> Deriv Work Long inhala Syste	) mg/m <sup>3</sup> mg/m <sup>3</sup> Status: 2011 <b>DNEL/DMEL)</b> red No Effect Level ( ter term ative emic effects	1000 100 150 (DNEL)	ppm(V) ppm(V)	

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	. i icai olig.	Version: 1/GB	Date revised: 12.02.202	
Substance number: 01480000001	02-936	Replaces Version: - / GB	Print date: 27.02.2	
Duration of exposure	Short	term		
Route of exposure	inhala			
Mode of action	Local	effects		
Concentration		1900	mg/m³	
Type of value		ed No Effect Level (DNEL)		
Reference group Duration of exposure	Work Long			
Route of exposure	derma			
Mode of action		mic effects		
Concentration	Cyste	343	mg/kg/d	
Type of value		ed No Effect Level (DNEL)		
Reference group Duration of exposure	Cons Long			
Route of exposure	inhala			
Mode of action		mic effects		
Concentration	0,010	114	mg/m³	
Type of value	Derive	ed No Effect Level (DNEL)		
Reference group	Cons	umer		
Duration of exposure	Short			
Route of exposure	inhala			
Mode of action	Local	effects		
Concentration		950	mg/m³	
Type of value		ed No Effect Level (DNEL)		
Reference group	Cons			
Duration of exposure Route of exposure	Long derma			
Mode of action		mic effects		
Concentration	Cyste	206	mg/kg/d	
Type of value	Derivo	ed No Effect Level (DNEL)		
Reference group	Cons			
Duration of exposure	Long	term		
Route of exposure	oral			
Mode of action	Syste	mic effects		
Concentration		87	mg/kg/d	
1-Methoxy-2-propanol	<b>_</b> .			
Type of value		ed No Effect Level (DNEL)		
Reference group Duration of exposure	Work Acute			
Route of exposure	inhala			
Mode of action		effects		
Concentration	Local	553,5	mg/m³	
Type of value	Derivo	ed No Effect Level (DNEL)		
Reference group	Work			
Duration of exposure	Long			
Route of exposure	derma			
Mode of action	Syste	mic effects	, ,	
Concentration		50,6	mg/person/ d	
Type of value		ed No Effect Level (DNEL)	~	

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пеат оц	-	
		Date revised: 12.02.2020
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Wor	ker	
Syst		
	369	mg/m³
Deri	ved No Effect Level (DNEL)	
Long	g term	
Syst	emic effects	
	18,1	mg/kg
Deri	ved No Effect Level (DNEL)	
Syst	emic effects	
5	43,9	mg/m³
Deri	ved No Effect Level (DNEL)	
	gionn	
	emic effects	
Cyc	3,3	mg/kg/d
ntration	(PNEC)	
	-	
Fies		mal
	0,98	mg/l
	-	
Salt		
	0,79	mg/l
	-	
Wat		
	2,75	mg/l
PNE	C	
Sew	age treatment plant (STP)	
	580	mg/l
PNE	C	
	-	
	3,6	mg/kg
PNF	C	
ivial	2,9	mg/kg
	i C	
Soil		
	<ul> <li>Heat 6tk</li> <li>2-936</li> <li>Wor Long inha Syst</li> <li>Deri Gen Long inha Syst</li> <li>Deri Gen Long oral Syst</li> <li>Deri Gen Long oral Syst</li> <li>Martation</li> <li>PNE Fres</li> <li>PNE Salt</li> <li>PNE Sew</li> <li>PNE Fres</li> <li>PNE Fres</li> <li>PNE Fres</li> <li>PNE Fres</li> </ul>	Worker Long term inhalative Systemic effects 369 Derived No Effect Level (DNEL) General Population Long term dermal Systemic effects 18,1 Derived No Effect Level (DNEL) General Population Long term inhalative Systemic effects 43,9 Derived No Effect Level (DNEL) General Population Long term oral Systemic effects 3,3 htration (PNEC) PNEC Freshwater 0,96 PNEC Saltwater 0,79 PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC Marine sediment

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de name: Marabu Sketch Mar	-	Mara
bstance number: 0148000000	Version: 1 / GB 0102-936 Replaces Version: - / GB	Date revised: 12.02.202 Print date: 27.02.2
1-Methoxy-2-propanol		
Type of value	PNEC	
Туре	Freshwater	
Concentration	10	mg/l
Type of value	PNEC	
Туре	Water	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type of value Type	Sediment	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type Concentration	Marine sediment 4,17	ma/ka
Concentration	4,17	mg/kg
Type of value	PNEC	
Туре	Soil	
Concentration	2,47	mg/kg
Type of value	PNEC	
	Sewage treatment plant (STP)	
Concentration	100	mg/l
exhaust ventilation and go	tion. Where reasonably practicable this sh ood general extraction. If these are not su	fficient to maintain concentrations of
particulates and solvent v	apour below the OEL, suitable respiratory	protection must be worn.
Respiratory protection If workers are exposed to	concentrations above the exposure limit t	hey must use appropriate, certified
<b>Respiratory protection</b> If workers are exposed to respirators. Full mask, filt		hey 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 ma individual or combination	er A aterial or combination of materials that will of chemicals.	give unlimited resistance to any
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove ma individual or combination For prolonged or repeated	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile	give unlimited resistance to any
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove ma individual or combination For prolonged or repeated Material thickness	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm	give unlimited resistance to any
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove ma individual or combination For prolonged or repeated Material thickness Breakthrough time	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min	give unlimited resistance to any undergloves are required.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove ma individual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the	give unlimited resistance to any undergloves are required. e product.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove ma individual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the mation provided by the glove manufacture owed.	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove ma individual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo Gloves should be replace	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the rmation provided by the glove manufacture owed. ed regularly and if there is any sign of dam	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and age to the glove material.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove maindividual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo Gloves should be replace Always ensure that gloves	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the mation provided by the glove manufacture owed. ed regularly and if there is any sign of dam s are free from defects and that they are s	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and age to the glove material. tored and used correctly.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove maindividual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo Gloves should be replace Always ensure that gloves The performance or effect	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the rmation provided by the glove manufacture owed. ed regularly and if there is any sign of dam	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and age to the glove material. tored and used correctly.
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove maindividual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo Gloves should be replace Always ensure that gloves The performance or effect maintenance.	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the rmation provided by the glove manufacture owed. ad regularly and if there is any sign of dam is are free from defects and that they are s stiveness of the glove may be reduced by p	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and age to the glove material. tored and used correctly. ohysical/ chemical damage and poor
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove maindividual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo Gloves should be replace Always ensure that gloves The performance or effect maintenance.	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the rmation provided by the glove manufacture owed. ed regularly and if there is any sign of dam s are free from defects and that they are s tiveness of the glove may be reduced by p to protect the exposed areas of the skin, th	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and age to the glove material. tored and used correctly. ohysical/ chemical damage and poor
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove maindividual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo Gloves should be replace Always ensure that gloves The performance or effect maintenance. Barrier creams may help	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the rmation provided by the glove manufacture owed. ed regularly and if there is any sign of dam s are free from defects and that they are s tiveness of the glove may be reduced by p to protect the exposed areas of the skin, th	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and age to the glove material. tored and used correctly. ohysical/ chemical damage and poor
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove maindividual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo Gloves should be replace Always ensure that gloves The performance or effect maintenance. Barrier creams may help to once exposure has occur	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the rmation provided by the glove manufacture owed. ed regularly and if there is any sign of dam s are free from defects and that they are s tiveness of the glove may be reduced by p to protect the exposed areas of the skin, th	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and age to the glove material. tored and used correctly. ohysical/ chemical damage and poor
Respiratory protection If workers are exposed to respirators. Full mask, filte Hand protection There is no one glove maindividual or combination For prolonged or repeated Material thickness Breakthrough time The breakthrough time m The instructions and infor replacement must be follo Gloves should be replace Always ensure that gloves The performance or effect maintenance. Barrier creams may help to once exposure has occur	er A aterial or combination of materials that will of chemicals. d handling nitrile rubber gloves with textile > 0,5 mm < 30 min ust be greater than the end use time of the mation provided by the glove manufacture owed. d regularly and if there is any sign of dam s are free from defects and that they are s triveness of the glove may be reduced by p to protect the exposed areas of the skin, the red.	give unlimited resistance to any undergloves are required. e product. er on use, storage, maintenance and age to the glove material. tored and used correctly. ohysical/ chemical damage and poor

## **SECTION 9: Physical and chemical properties**

Item Numbers: 82325-1003

Page 7(13)

ISDS for #82325 - MARABU SKETC <del>Safety data sheet in accordance wi</del>	th regula	tion (EC) No 1907/2	006	Page * ~
rade name: Marabu Sketch Marker	Heat 6tlo	936		
	. loat ong	Version: 1/GB		Date revised: 12.02.2020
Substance number: 0148000000102	-936	Replaces Version:	- / GB	Print date: 27.02.20
9.1. Information on basic phy			perties	
Form Colour	Liqui red	d		
Odour		nt-like		
Odour threshold	50170			
Remarks	No d	ata available		
pH value	NO U			
Remarks	Not a	pplicable		
Melting point	Note	ipplicable		
Remarks	not d	etermined		
Freezing point	nor a	etermined		
Remarks	not d	etermined		
Initial boiling point and boil				
Value	appr.	-	°C	
Flash point	аррі	70	Ũ	
Value		12	°C	
Evaporation rate (ether = 1)	-		C C	
Remarks		etermined		
Flammability (solid, gas)				
Not applicable				
Upper/lower flammability or	-			
Lower explosion limit Upper explosion limit	appr. appr.		%(V) %(V)	
Source		ature value	70(V)	
Vapour pressure				
Value	appr.	59	hPa	
Vapour density				
Remarks	not d	etermined		
Density				
Remarks	not d	etermined		
Solubility in water				
Remarks	partia	ally miscible		
Partition coefficient: n-octa		-		
Remarks	Not a	pplicable		
Ignition temperature				
Value	appr.	287	°C	
Source	Litera	ature value		
Efflux time				
Value	<	12	S	
Temperature Method	י אום	20 °C 53211 4 mm		
Explosive properties				
evaluation	no			
Oxidising properties				
evaluation	None	known		
9.2. Other information				

MSDS for #82325 - MARABU SKETC <del>Safety data sheet in accordance w</del>	;H MAR ith regu	KER <del>Ilation (EC) No 1</del>	907/2006		Page
Frade name: Marabu Sketch Marker	Heat 6t	lg. 936			Marabu
		Version: 1/C	ЭB	Date revised:	12.02.2020
Substance number: 0148000000102	2-936	Replaces Vers	sion: -/GB	Print date	e: 27.02.20
Other information The physical specifications a			d refer to the used	safety relevant compon	ent(s).
SECTION 10: Stability and 10.1. Reactivity	<u>a reac</u>				
No hazardous reactions whe	n stored	d and handled acc	ording to prescribe	d instructions.	
10.2. Chemical stability Stable under recommended	storage	and handling con	ditions (see sectior	n 7).	
<b>10.3. Possibility of hazardou</b> Keep away from oxidising age exothermic reactions.			d strongly acid mat	erials in order to avoid	
<b>10.4. Conditions to avoid</b> When exposed to high temp	eratures	may produce haz	zardous decomposi	tion products.	
10.5. Incompatible materials		,			
No hazardous reactions whe	n storec	d and handled acc	ording to prescribe	d instructions.	
SECTION 11: Toxicologic 11.1. Information on toxicolo					
Acute oral toxicity					
Remarks	Based	on available data	, the classification of	criteria are not met.	
Acute oral toxicity (Compo	nents)				
<b>1-Methoxy-2-propanol</b> Species LD50	rat	5200	mg/ł	Ka .	
Acute dermal toxicity				-9	
Remarks	Based	on available data	, the classification of	criteria are not met.	
Acute dermal toxicity (Com					
1-Methoxy-2-propanol		,			
Species	rabbit				
LD50		14000	mg/ł	<g< td=""><td></td></g<>	
Acute inhalational toxicity					
Remarks	Based	on available data	, the classification of	criteria are not met.	
Skin corrosion/irritation					
Remarks	Based	on available data	, the classification of	criteria are not met.	
Serious eye damage/irritati	on				
evaluation Remarks	irritant	assification criteria	a are met		
Sensitization	Based	on available data	the classification (	criteria are not met.	
Sensitization Remarks	-4000	si avanubic udla	, and elaborhoadoff (		
Remarks					
Remarks Mutagenicity		on available data	the classification (	criteria are not met	
Remarks		on available data	, the classification of	criteria are not met.	

Safety data sheet in	IARABU SKETCH		(FR			Page 10 of
	-accordance wit	h regul	ation (EC)	No 1907/2	2006	
rade name: Marabu	J Sketch Marker I	Heat 6th	0	4 / 00		Marabu
				1/GB		Date revised: 12.02.2020 Print date: 27.02.20
Substance number:	0148000000102	-936	Replace	s Version:	- / GB	Fint date: 27.02.20
Carcinogenic	ity					
Remarks	.,	Based	on availabl	e data, the	classification c	riteria are not met.
Specific Targ	et Organ Toxic	ity (ST	ТОТ)			
Single expo	sure					
Remarks		Based	on availabl	e data, the	classification c	riteria are not met.
<b>Repeated ex</b> Remarks	cposure	Based	on availabl	e data, the	classification c	riteria are not met.
Aspiration ha	zard					
Based on av	ailable data, the o	classific	ation criter	ia are not n	net.	
Experience in	practice					
and adverse dizziness, fa Solvents ma contact with dermatitis an reversible da known, delay	effects on kidney tigue, muscular w y cause some of the mixture may of ad absorption thro mage. Ingestion	<ol> <li>liver a veaknes the abo cause re bugh the may ca te effect</li> </ol>	and central as, drowsing ve effects b emoval of r e skin. The use nausea ts and also	nervous sy ess and in by absorpti natural fat f liquid splas a, diarrhoea chronic eff	estem. Sympton extreme cases, on through the rom the skin re- shed in the eyes a and vomiting. rects of compor	respiratory system irritation ns and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact s may cause irritation and This takes into account, where ents from short-term and eve contact.
Other informa		inalatioi	i anu uerni	al loules o	i exposure and	eye contact.
There are no	data available o	n the m	ixture itself	_		
The mixture	data available of has been assess nd classified for t	ed follo	wing the ac	ditivity me		PRegulation (EC) No
The mixture 1272/2008 a	has been assess nd classified for t	ed follov oxicolog	wing the ac gical hazaro	ditivity me		PRegulation (EC) No
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity	has been assess nd classified for t cological in	ed follov oxicolog	wing the ac gical hazaro	ditivity me		PRegulation (EC) No
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has	has been assess nd classified for t cological in mation data available of been assessed fo	ed follov oxicolog <b>nform</b> n the m ollowing	wing the ac gical hazard a <b>ation</b> ixture itself the summa	dditivity me ds accordir .Do not allo ation metho	ngly. ow to enter drai	P Regulation (EC) No ns or water courses.The Regulation (EC) No 1272/2008
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has and is not cla	has been assess nd classified for t cological in mation data available of been assessed fo assified as dange	ed follov oxicolog <b>nform</b> n the m ollowing	wing the ac gical hazard a <b>ation</b> ixture itself the summa	dditivity me ds accordir .Do not allo ation metho	ngly. ow to enter drai	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has and is not cla Fish toxicity (	has been assess nd classified for t cological in mation data available of been assessed fo assified as dange (Components)	ed follov oxicolog <b>nform</b> n the m ollowing	wing the ac gical hazard a <b>ation</b> ixture itself the summa	dditivity me ds accordir .Do not allo ation metho	ngly. ow to enter drai	ns or water courses.The
The mixture 1272/2008 a ECTION 12: E 12.1. Toxicity General inform There are no mixture has and is not cla	has been assess nd classified for t cological in mation data available of been assessed fo assified as dange (Components)	ed follov oxicolog <b>nform</b> n the m bllowing rous for	wing the ac gical hazard a <b>ation</b> ixture itself the summa	Iditivity me ds accordir .Do not allo ation metho nment.	ngly. ow to enter drai	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has and is not cla Fish toxicity ( 1-Methoxy-2-p Species LC0	has been assess nd classified for t cological in data available of been assessed for assified as dange (Components) propanol	ed follov oxicolog <b>nform</b> n the m bllowing rous for	wing the ac gical hazard a <b>ation</b> ixture itself the summar the enviro orfe (Leuci 4600	ditivity me ds accordir .Do not allo ation metho nment. scus idus)	ngly. ow to enter drai	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has and is not cla Fish toxicity ( 1-Methoxy-2-p Species LC0 Duration of e	has been assess nd classified for t cological in data available of been assessed for assified as dange (Components) propanol	ed follov oxicolog <b>nform</b> n the m ollowing rous for golden	wing the ac gical hazard a <b>ation</b> ixture itself the summa the enviro orfe (Leuci	Iditivity me ds accordir .Do not allo ation metho nment.	ngly. ow to enter drai od of the CLP R	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has l and is not cla Fish toxicity ( 1-Methoxy-2-p Species LCO Duration of e Daphnia toxic	has been assess nd classified for t cological in mation data available of been assessed for assified as dange (Components) propanol exposure city (Componer	ed follov oxicolog <b>nform</b> n the m ollowing rous for golden	wing the ac gical hazard a <b>ation</b> ixture itself the summar the enviro orfe (Leuci 4600	ditivity me ds accordir .Do not allo ation metho nment. scus idus)	ngly. ow to enter drai od of the CLP R	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has l and is not cla Fish toxicity ( 1-Methoxy-2-p Species LCO Duration of e Daphnia toxic 1-Methoxy-2-p	has been assess nd classified for t cological in mation data available of been assessed for assified as dange (Components) propanol exposure city (Components)	ed follov oxicolog nform n the m blowing rous for golden > nts)	wing the ac gical hazard ation ixture itself the summar the enviro orfe (Leuci 4600 96	ditivity me ds accordir .Do not allo ation metho nment. scus idus)	ngly. ow to enter drai od of the CLP R	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has and is not cla Fish toxicity ( 1-Methoxy-2-g Species LC0 Duration of e Daphnia toxic 1-Methoxy-2-g Species EC50	has been assess nd classified for t cological in data available of been assessed for assified as dange (Components) bropanol exposure city (Components) bropanol	ed follov oxicolog nform n the m blowing rous for golden > nts)	wing the ac gical hazard ation ixture itself the summar the enviro orfe (Leuci 4600 96 a magna 23300	ditivity me ds accordir .Do not allo ation metho nment. scus idus)	ngly. ow to enter drai od of the CLP R	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has l and is not cla Fish toxicity ( 1-Methoxy-2-p Species LC0 Duration of e Daphnia toxic 1-Methoxy-2-p Species EC50 Duration of e	has been assess nd classified for t cological in data available of been assessed for assified as dange (Components) bropanol exposure city (Component bropanol	ed follov oxicolog nform n the m ollowing rous for golden > nts) Daphni	wing the ac gical hazard ation ixture itself the summar the enviro orfe (Leuci 4600 96 a magna	ditivity me ds accordir .Do not allo ation metho nment. scus idus)	ngly. ow to enter drai od of the CLP F mg/l	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has I and is not cla Fish toxicity ( 1-Methoxy-2-p Species LCO Duration of e Daphnia toxic 1-Methoxy-2-p Species EC50 Duration of e Algae toxicity	has been assess nd classified for t cological in mation data available of been assessed for assified as dange (Components) bropanol exposure city (Components propanol exposure (Components	ed follov oxicolog nform n the m ollowing rous for golden > nts) Daphni	wing the ac gical hazard ation ixture itself the summar the enviro orfe (Leuci 4600 96 a magna 23300	ditivity me ds accordir .Do not allo ation metho nment. scus idus) h	ngly. ow to enter drai od of the CLP F mg/l	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has I and is not cla Fish toxicity ( 1-Methoxy-2-g Species EC50 Duration of e Algae toxicity 1-Methoxy-2-g	has been assess nd classified for t cological in mation data available of been assessed for assified as dange (Components) bropanol exposure city (Components propanol exposure (Components	ed follov oxicolog nform n the m ollowing rous for golden > nts) Daphni	wing the ac gical hazard ation ixture itself the summa the enviro orfe (Leuci 4600 96 a magna 23300 48	ditivity me ds accordir .Do not allo ation metho nment. scus idus) h	ngly. ow to enter drai od of the CLP F mg/l	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has I and is not cla Fish toxicity ( 1-Methoxy-2-F Species EC50 Duration of e Algae toxicity 1-Methoxy-2-F Species	has been assess nd classified for t cological in mation data available of been assessed for assified as dange (Components) bropanol exposure city (Components propanol exposure (Components	ed follov oxicolog nform n the m ollowing rous for golden > nts) Daphni	wing the ac gical hazard ation ixture itself the summar the enviro orfe (Leuci 4600 96 a magna 23300 48 desmus	ditivity me ds accordir .Do not allo ation metho nment. scus idus) h	ngly. bw to enter drai bd of the CLP F mg/l	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has I and is not cla Fish toxicity ( 1-Methoxy-2-g Species EC50 Duration of e Algae toxicity 1-Methoxy-2-g	has been assess nd classified for t cological in data available of been assessed for assified as dange (Components) bropanol exposure city (Components propanol exposure (Components propanol	ed follov oxicolog nform n the m ollowing rous for golden > nts) Daphni	wing the ac gical hazard ation ixture itself the summa the enviro orfe (Leuci 4600 96 a magna 23300 48	ditivity me ds accordir .Do not allo ation metho nment. scus idus) h	ngly. ow to enter drai od of the CLP F mg/l	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has I and is not cla Fish toxicity ( 1-Methoxy-2-F Species EC50 Duration of e Algae toxicity 1-Methoxy-2-F Species EC50 Duration of e Algae toxicity 1-Methoxy-2-F Species EC50 Duration of e	has been assess nd classified for t cological in data available of been assessed for assified as dange (Components) bropanol exposure city (Components propanol exposure (Components propanol	ed follov oxicolog <b>nform</b> n the m blowing rous for golden > <b>nts)</b> Daphni > Desmo >	wing the ac gical hazard ation ixture itself the summar the enviro orfe (Leuci 4600 96 a magna 23300 48 desmus 1000	ditivity me ds accordir .Do not allo ation metho nment. scus idus) h	ngly. bow to enter drai bod of the CLP F mg/l	ns or water courses.The
The mixture 1272/2008 a SECTION 12: E 12.1. Toxicity General inform There are no mixture has I and is not cla Fish toxicity ( 1-Methoxy-2-F Species EC50 Duration of e Algae toxicity 1-Methoxy-2-F Species EC50 Duration of e Algae toxicity 1-Methoxy-2-F Species EC50 Duration of e	has been assess nd classified for t cological in data available of been assessed for assified as dange (Components) bropanol exposure city (Components bropanol exposure (Components bropanol exposure city (Components bropanol	ed follov oxicolog <b>nform</b> n the m blowing rous for golden > <b>nts)</b> Daphni > Desmo >	wing the ac gical hazard ation ixture itself the summar the enviro orfe (Leuci 4600 96 a magna 23300 48 desmus 1000	ditivity me ds accordir .Do not allo ation metho nment. scus idus) h	ngly. bow to enter drai bod of the CLP F mg/l	ns or water courses.The

MSDS for #82325 - M	ARABU SKETCH MAR	KER		Page + + 18
Safety data sheet in	accordance with regu	Hation (EC) No 1907/2	006	
Trade name: Marabu	Sketch Marker Heat 6	tla. 936		
		Version: 1/GB		Date revised: 12.02.2020
Substance number:	0148000000102-936	Replaces Version:	- / GB	Print date: 27.02.20
EC50	>	1000	mg/l	
12.2. Persistence	and degradability	/		
General inform				
No data avail				
_	lity (Components)			
<b>1-Methoxy-2-p</b> Value	oropanol	90	%	
Duration of te	est	28 d	70	
evaluation Method		ly biodegradable (accol 0 301 F	rding to OECD crit	eria)
12.3. Bioaccumu		0011		
General inform	-			
	data available on the n	nixture itself.		
Partition coeff	ficient: n-octanol/wa	ater		
Remarks	No	t applicable		
12.4. Mobility in s	soil			
General inform	nation			
There are no	data available on the n	nixture itself.		
12.5. Results of F	PBT and vPvB ass	essment		
General inform	nation			
There are no	data available on the n	nixture itself.		
12.6. Other adver	rse effects			
General inform	nation			
There are no	data available on the n	nixture itself.		
SECTION 13: D	isposal conside	erations		
13.1. Waste treat	ment methods			
	mmendations for th	e product		
Do not allow t	to enter drains or water	courses.		
				ant national regulation.
EWC waste c	n Waste Catalogue clas code 08 03		aining dangerous	
				y no longer apply and the
	ode should be assigned formation contact your			
	mmendations for pa			
	•		should be obtaine	ed from the relevant waste
	he classification of emp			
	ners must be scrapped containers are hazardo		number 150110).	
			,	
SECTION 14: Tr	ransport inform	ation		

ubstance number: 014800	Version: 00000102-936 Replaces	1 / GB Version: - / GB	Marab Date revised: 12.02.2020 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	
	-		-

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).

85

#### 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 Heat 6	ilg. 936	
		Version: 1 / GB	Date revised: 12.02.2020
Substance number:	0148000000102-936	Replaces Version: - / GB	Print date: 27.02.20
H225		flammable liquid and vapour.	
H226		hable liquid and vapour.	
H319 H336		es serious eye irritation. ause drowsiness or dizziness.	
	•		
-	es listed in Chapter		
Eye Irrit. 2 Flam. Lig. 2		itation, Category 2 nable liquid, Category 2	
Flam. Liq. 2 Flam. Liq. 3		nable liquid, Category 2	
STOT SE 3		ic target organ toxicity - single expo	sure. Category 3
	Il information		
		e previous version of the safety data	sheet are marked with: ***
construed a The product to the suppli As the speci for ensuring The informa	s any guarantee of techr should not be used for p er and obtaining written ific conditions of use of t that the requirements of tion contained in this saf	y and environmental aspects of the nical performance or suitability for pa purposes other than those shown in handling instructions. he product are outside the supplier's f relevant legislation are complied w ety data sheet does not constitute t r health and safety legislation.	articular applications. Section 1 without first referring s control, the user is responsible ith.

MSDS for #82325 - MARABU \$ <del>Safety data sheet in accorda</del>	SKETCH MAR	KEK Istion (EC) No. 1907/2006	Page 14 ~
Juisty data sheet in accorde	in <del>ce with regu</del>		
rade name: Marabu Sketch	Marker Heat 6t	lg. 956	
		Version: 1 / GB	Date revised: 12.02.2020
Substance number: 0148000	000102-956	Replaces Version: - / GB	Print date: 27.02.20
		e substance/mixture and	d of the
ompany/undertaking	<u>g</u>		
1.1. Product identifier Marabu Sketch Marke	er Heat 6tlg. 95	6	
1.2. Relevant identified	uses of the	substance or mixture and u	ses advised against
Use of the substance/p			C
Identified Uses			
SU21	Consumarius	ses: Private households (= general p	ublic – consumers)
PC9a		paints, thinners, paint removers	bublic = consumers)
1.3. Details of the suppl	8		
Address/Manufacture		alety data sheet	
Marabu GmbH & Co. Asperger Strasse 4	ĸĠ		
71732 Tamm			
Germany			
Telephone no.	+49-7141/69	-	
Fax no. Information provided	+49-7141/69	1-147 product safety	
by / telephone	Department	Joddet salety	
E-mail address of	PRSI@maral	ou.com	
person responsible for this SDS			
1.4. Emergency telepho	no numbor		
(+49) (0)621-60-4333			
		_	
ECTION 2: Hazards	<u>identificat</u>	tion	
2.1. Classification of the	e substance	or mixture	
Classification (Regula	ation (EC) No	<b>b. 1272/2008</b> )	
Classification (Regula	• •	-	
	Flam. Liq. 2	H225	
	Eye Irrit. 2	H319	
2.2. Label elements			
Labelling according	a to regulati	on (EC) No 1272/2008	
Hazard pictograms	,		
	>		
Signal word			
-			
Danger			
Danger Hazard statements			
Danger		able liquid and vapour. us eye irritation.	

SDS for #82325 - MARABU <del>afety data sheet in accord</del>	ance with regu	lation (EC)	<del>No 190</del>	7/2006			
ade name: Marabu Sketch	Marker Heat 6t	g. 956					$\mathbf{N}$
		Version:	1 / GE	3		Date revised:	
ubstance number: 014800	0000102-956	Replaces	s Versio	on: -/G	В	Print da	ate: 27.02.20
P101				e produc	t containe	or label at hand.	
P102	Keep out of r						••••
P210	sources. No s		t surrac	es, span	ks, open n	ames and other ignit	ion
P264.1	Wash hands	thoroughly a	after ha	ndling.			
P280 P305+P351+P338						otection / face prote minutes. Remove c	
1 303 11 331 11 330	lenses, if pres	sent and eas	sy to do	. Continu	ue rinsing.	minutes. Remove e	ontact
P501.9	Dispose of co					te.	
.3. Other hazards	ovo to ha manti	anad					
No special hazards h	ave to be menti	oned.					
ECTION 3: Compos	sition/infor	mation o	<u>on in</u>	gredie	ents		
.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 (Regul		272/2008)					
	Flam. Liq. 2 Eye Irrit. 2		H225 H319				
Concentration limits	Regulation (EC Eye Irrit. 2	No. 1272/2 ( H319		50 %			
1-Methoxy-2-propano	1						
CAS No. EINECS no.	107-98-2						
Registration no.	203-539-1 01-21194574	35-35					
Concentration	>=	10	<	20	%		
Classification (Regul	ation (EC) No. 1	272/2008)					
	STOT SE 3	ŗ	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			ughly w	vith soap	and water	or use recognised s	kin
After eye contact							
-						he eyelids apart for	

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

Trade name: Marabu Sketch Marker Heat 6tlg. 956

Version: 1/GB

Date revised: 12.02.2020 Print date: 27.02.20

Substance number: 0148000000102-956

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 MARKEF	े <del>on (EC) No 1907/2006</del>		Page
Trade name: Marabu Sketch Marker	0			Marab
	`	Version: 1/GB		Date revised: 12.02.2020
Substance number: 0148000000102	2-956	Replaces Version: - / G	В	Print date: 27.02.20
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	rising from rea. For pe essel. Alwa	the application of this mi rsonal protection see Sec 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	l explosion		
Vapours are heavier than air air.	and may sp	pread along floors. Vapor	urs may fo	rm explosive mixtures with
Classification of fires / temp	perature d	lass / 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	vessels		
Electrical installations/working standards. Storage rooms in accordance with national regu	which filling			
Hints on storage assembly				
Store away from oxidising ag	ents, from s	strongly alkaline and stro	ngly acid r	materials.
Further information on stor	age cond	itions		
Observe label precautions. S		en 15 and 30 °C in a dry,	well venti	lated place away from
No smoking. Prevent unautho	orised acce			ay from sources of ignition. nust be carefully resealed and
	orised acce			
No smoking. Prevent unauthon kept upright to prevent leakage	orised acce			
No smoking. Prevent unauthon kept upright to prevent leakage	orised acce			
No smoking. Prevent unautho kept upright to prevent leakag <b>7.3. Specific end use(s)</b> Paint	prised acce ge.	ss. Containers which are	opened n	
No smoking. Prevent unauthor kept upright to prevent leakag 7.3. Specific end use(s) Paint SECTION 8: Exposure cor	prised acce ge.	ss. Containers which are	opened n	
No smoking. Prevent unauthor kept upright to prevent leakag 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters	prised acce ge.	ss. Containers which are	opened n	
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	prised acce ge.	ss. Containers which are	opened n	
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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	ss. Containers which are ersonal protectic mg/m <sup>3</sup> mg/m <sup>3</sup>	opened n	ppm(V)
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Tade name. Marabu Sketch Marke	ei neai oliç	Version: 1/GB	Date revised: 12.02.202	
Substance number: 01480000001	02-956	Replaces Version: -/GB	Print date: 27.02.20	
	02 000			
Duration of exposure		t term		
Route of exposure		ative		
Mode of action Concentration	LOCA	Il effects 1900	mg/m³	
Concentration		1900	mg/m²	
Type of value	Deriv	ved No Effect Level (DNEL)		
Reference group	Worl			
Duration of exposure		term		
Route of exposure	dern			
Mode of action Concentration	Syst	emic effects 343	malkald	
Concentration		343	mg/kg/d	
Type of value	Deriv	ved No Effect Level (DNEL)		
Reference group	Con	sumer		
Duration of exposure		term		
Route of exposure		ative		
Mode of action	Syst	emic effects		
Concentration		114	mg/m³	
Type of value	Deriv	ved No Effect Level (DNEL)		
Reference group		sumer		
Duration of exposure	Shor	t term		
Route of exposure		ative		
Mode of action	Loca	l effects		
Concentration		950	mg/m³	
Type of value	Deriv	ved No Effect Level (DNEL)		
Reference group		sumer		
Duration of exposure		, 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	Con	sumer		
Duration of exposure		, 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	ker		
Duration of exposure	Acut			
Route of exposure		ative		
Mode of action	Loca	ll effects	m a /m 3	
Concentration		553,5	mg/m³	
Type of value	Deriv	ved No Effect Level (DNEL)		
Reference group	Worl			
Duration of exposure		g term		
Route of exposure	derm			
Mode of action Concentration	Syst	emic effects 50,6	mg/person/	
Concentration		50,0	d	
Type of value	<b>_</b> .	ved No Effect Level (DNEL)		

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		Version: 1/GB		
Substance number: 0148000000102-9	56	Replaces Version: - / GB	Print date: 27.02.20	
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	Cyst	43,9	mg/m³	
Type of value	Dori	ved No Effect Level (DNEL)		
Reference group				
Duration of exposure		eral Population		
		g term		
Route of exposure	oral	amia offecto		
Mode of action	Syst	emic effects		
Concentration		3,3	mg/kg/d	
Predicted No Effect Concent	ation	(PNEC)		
Ethanol				
Type of value	PNE	C		
Туре	Fres	hwater		
Concentration		0,96	mg/l	
Type of value	PNE	C		
Type		water		
Concentration	Suit	0,79	mg/l	
Concentration			iiig/i	
Type of value	PNE	-		
Туре	vvat	er (intermittent release)		
Concentration		2,75	mg/l	
Type of value	PNE			
Туре	Sew	age treatment plant (STP)		
Concentration		580	mg/l	
Type of value	PNE	C		
	Fres	hwater sediment		
Type		3,6	mg/kg	
Type Concentration	PNE	C		
Concentration		ne sediment		
Concentration Type of value			$\sim \alpha / c \alpha$	
Concentration		2,9	mg/kg	
Concentration Type of value Type Concentration	Mari	2,9	тужу	
Concentration Type of value Type Concentration Type of value	Mari PNE	2,9	mg/kg	
Concentration Type of value Type Concentration	Mari	2,9	mg/kg	

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de name: Marabu Sketch Ma	0		Mara
astance numbers 01480000		on: 1/GB aces Version: -/GI	Date revised: 12.02.202 Print date: 27.02.2
ostance number: 01480000	10102-956 Repla		
1-Methoxy-2-propanol			
Type of value	PNEC		
Type Concentration	Freshwater 10		mg/l
Type of value	PNEC		
Туре	Water		
Concentration	41,6	5	mg/kg
Type of value	PNEC		
Type	Sediment		
Concentration	41,6		mg/kg
Type of value	PNEC		
Type Concentration	Marine sedii 4,17		ma/ka
Concentration	4,17		mg/kg
Type of value	PNEC		
Type Concentration	Soil	,	ma/ka
Concentration	2,47		mg/kg
Type of value	PNEC		
Type Concentration	Sewage trea 100	atment plant (STP)	mg/l
2. Exposure controls			
Exposure controls Provide adequate ventil exhaust ventilation and	good general extraction	on. If these are not s	should be achieved by the use of local sufficient to maintain concentrations of
Exposure controls Provide adequate ventil exhaust ventilation and particulates and solvent	good general extraction	on. If these are not s	
Exposure controls Provide adequate ventil exhaust ventilation and particulates and solvent Respiratory protection If workers are exposed	good general extraction vapour below the OE	on. If these are not s L, suitable respirato	sufficient to maintain concentrations of
Exposure controls Provide adequate ventil exhaust ventilation and particulates and solvent Respiratory protection If workers are exposed respirators. Full mask, f	good general extraction vapour below the OE	on. If these are not s L, suitable respirato	sufficient to maintain concentrations of ry protection must be worn.
Exposure controls Provide adequate ventil exhaust ventilation and particulates and solvent Respiratory protection If workers are exposed respirators. Full mask, f Hand protection	good general extractions about the OE concentrations about the A	on. If these are not s L, suitable respirato ve the exposure lim	sufficient to maintain concentrations of bry protection must be worn.
Exposure controls Provide adequate ventil exhaust ventilation and particulates and solvent Respiratory protection If workers are exposed respirators. Full mask, f Hand protection There is no one glove m	good general extractions about the OE concentrations about the A statement of the concentrations about the A statement of the combination of the c	on. If these are not s L, suitable respirato ve the exposure lim	sufficient to maintain concentrations of ry protection must be worn.
Exposure controls Provide adequate ventil exhaust ventilation and particulates and solvent Respiratory protection If workers are exposed respirators. Full mask, f Hand protection There is no one glove m individual or combinatio	good general extractions vapour below the OE to concentrations about the A material or combination n of chemicals. ed handling nitrile rub	on. If these are not s L, suitable respirato ve the exposure limit n of materials that w	sufficient to maintain concentrations of bry protection must be worn.
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Exposure controls Provide adequate ventil exhaust ventilation and particulates and solvent Respiratory protection If workers are exposed respirators. Full mask, f Hand protection There is no one glove m individual or combinatio For prolonged or repeat Material thickness Breakthrough time The breakthrough time The breakthrough time The instructions and infireplacement must be fo Gloves should be replac Always ensure that glow The performance or effer maintenance.	good general extractions about the OE concentrations about the A concentrations about the A concentrations about the A concentrations about the A concentration and the A concentration and the A concentration and the A concentration provided by a concentration provided by a concentration and the A concentration and th	on. If these are not s L, suitable respirato we the exposure limit of materials that w ber gloves with texti mm min the end use time of t the glove manufacture ere is any sign of da cts and that they are e may be reduced by	sufficient to maintain concentrations of bry protection must be worn. it they must use appropriate, certified ill give unlimited resistance to any ile undergloves are required. the product. urer on use, storage, maintenance and mage to the glove material. e stored and used correctly. y physical/ chemical damage and poor
Exposure controls Provide adequate ventil exhaust ventilation and particulates and solvent Respiratory protection If workers are exposed respirators. Full mask, f Hand protection There is no one glove m individual or combinatio For prolonged or repeat Material thickness Breakthrough time The breakthrough time The instructions and infor replacement must be for Gloves should be replace Always ensure that glow The performance or effer maintenance. Barrier creams may hell once exposure has occur	good general extractions vapour below the OE to concentrations about the A the aterial or combination of chemicals. The aterial or combination of chemicals. The dhandling nitrile rub a construction of the aterial or combination of the aterial or combination provided by lowed. The aterial of the glove of the protect the exposured.	on. If these are not s L, suitable respirato we the exposure limit of materials that w ber gloves with texti mm min the end use time of the the glove manufacture ere is any sign of da cts and that they are e may be reduced by ed areas of the skin	sufficient to maintain concentrations of bry protection must be worn. It they must use appropriate, certified ill give unlimited resistance to any ile undergloves are required. The product. Uner on use, storage, maintenance and mage to the glove material. Is stored and used correctly. If physical/ chemical damage and poor I, they should however not be applied
<ul> <li>Exposure controls         <ul> <li>Provide adequate ventil exhaust ventilation and particulates and solvent</li> </ul> </li> <li>Respiratory protection         <ul> <li>If workers are exposed respirators. Full mask, f</li> </ul> </li> <li>Hand protection         <ul> <li>There is no one glove mindividual or combination</li> <li>For prolonged or repeat Material thickness</li> <li>Breakthrough time</li> <li>The breakthrough time</li> <li>The instructions and information information of the performance or effect</li> <li>Always ensure that glow</li> <li>The performance or effect</li> <li>maintenance.</li> <li>Barrier creams may hell once exposure has occided</li> </ul> </li> </ul>	good general extractions vapour below the OE to concentrations about the A the aterial or combination of chemicals. The aterial or combination of chemicals. The dhandling nitrile rub a construction of the aterial or combination of the aterial or combination provided by lowed. The aterial of the glove of the protect the exposured.	on. If these are not s L, suitable respirato we the exposure limit of materials that w ber gloves with texti mm min the end use time of the the glove manufacture ere is any sign of da cts and that they are e may be reduced by ed areas of the skin	sufficient to maintain concentrations of bry protection must be worn. It they must use appropriate, certified ill give unlimited resistance to any ile undergloves are required. The product. Uner on use, storage, maintenance and mage to the glove material. Is stored and used correctly. If physical/ chemical damage and poor I, they should however not be applied

**SECTION 9: Physical and chemical properties** 

Item Numbers: 82325-1003

Page 7(13)

SDS for #82325 - MARABU SKETC afety data sheet in accordance wit	th regula	tion (EC) No 1907/2	006		—
ade name: Marabu Sketch Marker	Heat 6tlg	956			$\setminus$
	0	Version: 1/GB		Date revised: 12.02.	
ubstance number: 0148000000102	-956	Replaces Version:	- / GB	Print date	: 27.02.20
0.1. Information on basic phy	sical ar Liquio		perties		
Form Colour	blue	J			
Odour		nt-like			
Odour threshold					
Remarks	No da	ata available			
pH value					
Remarks	Not a	pplicable			
Melting point		ppiloabio			
Remarks	not de	etermined			
Freezing point					
Remarks	not de	etermined			
Initial boiling point and boil					
Value	appr.		°C		
Flash point	appr.	10	U		
Value		12	°C		
Evaporation rate (ether = 1)	-	12	0		
Remarks		etermined			
Flammability (solid, gas)	not u	etermined			
Not applicable					
Upper/lower flammability or	-				
Lower explosion limit Upper explosion limit	appr. appr.		%(V) %(V)		
Source		ture value	70(V)		
Vapour pressure					
Value	appr.	59	hPa		
Vapour density	- 1 1				
Remarks	not de	etermined			
Density					
Remarks	not de	etermined			
Solubility in water					
Remarks	partia	lly miscible			
Partition coefficient: n-octa		•			
Remarks		pplicable			
Ignition temperature		ppiloabio			
Value	appr.	287	°C		
Source		ture value	Ŭ		
Efflux time					
Value	<	12	S		
Temperature		20 °C			
Method	DIN 5	3211 4 mm			
Explosive properties					
evaluation	no				
Oxidising properties					
evaluation	None	known			
0.2. Other information					

Safety data sheet in accordance v	CH MAR <del>vith regu</del>	KER I <del>lation (EC) No 1</del>	907/2006	Page ** ··
Trade name: Marabu Sketch Marke	er Heat 6t	0		Marab
		Version: 1 /		Date revised: 12.02.2020
Substance number: 01480000010	02-956	Replaces Ver	sion: -/GB	Print date: 27.02.20
Other information The physical specifications SECTION 10: Stability an			nd refer to the used	safety relevant component(s).
10.1. Reactivity	ureau	<u>, livily</u>		
No hazardous reactions wh	en stored	and handled ac	cording to prescribe	d instructions.
10.2. Chemical stability Stable under recommended	d storage	and handling cor	nditions (see sectior	n 7).
<b>10.3. Possibility of hazardou</b> Keep away from oxidising a exothermic reactions.			nd strongly acid mat	erials in order to avoid
<b>10.4. Conditions to avoid</b> When exposed to high temp	oeratures	may produce ha	zardous decomposi	ition products.
10.5. Incompatible materials				
No hazardous reactions wh		and handled ac	cording to prescribe	d instructions.
See chapter 5.2 (Firefightin				
11.1. Information on toxicol				
11.1. Information on toxicol	ogical e	effects	a, the classification (	criteria are not met.
11.1. Information on toxicol Acute oral toxicity	o <b>gical e</b> Based	effects	a, the classification o	criteria are not met.
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compe 1-Methoxy-2-propanol Species	o <b>gical e</b> Based	effects		
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50	Based	effects	a, the classification o mg/l	
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compe 1-Methoxy-2-propanol Species	Based Based onents) rat	on available data	mg/l	кg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	bogical e Based onents) rat Based	on available data 5200 on available data	mg/l	
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	bogical e Based onents) rat Based	on available data 5200 on available data	mg/l	кg
11.1. Information on toxicol Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	bogical e Based onents) rat Based	on available data 5200 on available data	mg/l	кg
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	Based Donents) rat Based mponen	on available data 5200 on available data	mg/l	<g criteria are not met.</g 
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	bogical e Based bonents) rat Based mponen rabbit	effects on available data 5200 on available data ts)	mg/l	<g criteria are not met.</g 
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	Based onents) rat Based mponen rabbit	on available data 5200 on available data <b>ts)</b> 14000	mg/l	kg criteria are not met. 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	Based onents) rat Based mponen rabbit	on available data 5200 on available data <b>ts)</b> 14000	mg/l a, the classification o mg/l	kg criteria are not met. 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 5200 on available data ts) 14000 on available data	mg/l a, the classification o mg/l	kg criteria are not met. kg 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 Acute inhalational toxicity Remarks Skin corrosion/irritation	bogical e Based onents) rat Based mponen rabbit Based Based	effects on available data 5200 on available data ts) 14000 on available data	mg/l a, the classification o mg/l a, the classification o	kg criteria are not met. kg 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 (Con 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks	bogical e Based onents) rat Based mponen rabbit Based Based	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/l a, the classification o mg/l a, the classification o	kg criteria are not met. kg 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 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritation	bgical e Based onents) rat Based mponen rabbit Based Based tion irritant	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/l a, the classification of mg/l a, the classification of a, the classification of	kg criteria are not met. kg 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 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritation evaluation	bgical e Based onents) rat Based mponen rabbit Based Based tion irritant	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/l a, the classification of mg/l a, the classification of a, the classification of	kg criteria are not met. kg 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 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks	bgical e Based onents) rat Based mponen rabbit Based tion irritant The cla	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/l a, the classification of mg/l a, the classification of a, the classification of	kg criteria are not met. kg criteria are not met. criteria are not met.
<ul> <li>11.1. Information on toxicole</li> <li>Acute oral toxicity</li> <li>Remarks</li> <li>Acute oral toxicity (Composite of the second o</li></ul>	bgical e Based onents) rat Based mponen rabbit Based tion irritant The cla	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/l a, the classification of mg/l a, the classification of a, the classification of a are met.	kg criteria are not met. kg criteria are not met. criteria are not met.
<ul> <li>11.1. Information on toxicole</li> <li>Acute oral toxicity</li> <li>Remarks</li> <li>Acute oral toxicity (Composite of the second of</li></ul>	bgical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data 5200 on available data ts) 14000 on available data on available data assification criteri on available data	mg/l a, the classification of mg/l a, the classification of a, the classification of a are met.	<g criteria are not met. <g criteria are not met. criteria are not met.</g </g 
<ul> <li>11.1. Information on toxicole</li> <li>Acute oral toxicity</li> <li>Remarks</li> <li>Acute oral toxicity (Composite of the second of</li></ul>	bgical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data 5200 on available data ts) 14000 on available data on available data assification criteri on available data	mg/l a, the classification of mg/l a, the classification of a, the classification of a are met. a, the classification of	<g criteria are not met. <g criteria are not met. criteria are not met.</g </g 

MSDS for #82325 - MARABU SKET	CH MAR	KER			Page 23 of
Safety data sheet in accordance v	vith regu	lation (EC	<del>) No 1907/2</del> 0	)06	
Trade name: Marabu Sketch Marke	r Heat 6t	la 956			
Trade fiame. Marabu Oketen Marke	i neat ot	0	: 1/GB		Marabu Date revised: 12.02.2020
Substance number: 014800000010	)2-956		es Version:	- / GB	Print date: 27.02.20
Carcinogenicity					
Remarks	Based	on availab	le data, the o	lassification cri	iteria are not met.
Specific Target Organ Tox	icity (S	тот)			
Single exposure					
Remarks	Based	on availab	le data, the o	classification cri	iteria are not met.
Repeated exposure Remarks	Based	on availab	le data, the c	lassification cri	iteria are not met.
Aspiration hazard					
Based on available data, the	e classifi	cation criter	ia are not m	et.	
Experience in practice					
dizziness, fatigue, muscular Solvents may cause some o contact with the mixture ma dermatitis and absorption th	ey, liver a weakne of the abo y cause i rough th n may ca iate 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. Symptom xtreme cases, I n through the s om the skin res ned in the eyes and vomiting.	s and signs include headache, loss 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	Innalatio				
There are no data available					
The mixture has been asses 1272/2008 and classified fo	ssed follo r toxicolo	owing the a ogical hazar	dditivity meth ds according	nod of the CLP gly.	Regulation (EC) No
SECTION 12: Ecological	inforn	<u>nation</u>			
12.1. Toxicity					
General information					
There are no data available mixture has been assessed and is not classified as dang	following	g the summ	ation metho		s or water courses.The egulation (EC) No 1272/2008
Fish toxicity (Components	_				
1-Methoxy-2-propanol					
Species LC0	0	orfe (Leuc 4600	iscus idus)	ma/l	
Duration of exposure	>	4000 96	h	mg/l	
Daphnia toxicity (Compon	ents)				
1-Methoxy-2-propanol					
Species	Daphn	iia magna			
EC50 Duration of exposure		23300 48	h	mg/l	
Algae toxicity (Componen	ts)	40			
1-Methoxy-2-propanol	,				
Species	Desmo	odesmus			
EC50	>	1000		mg/l	
Duration of exposure	ants)	168	h		
Bacteria toxicity (Compon	ents)				
1-Methoxy-2-propanol Species	activat	ed sludge			

MSDS for #82325 - M	ARABU SKETCH MA	RKER		Page 24 of 7
Safety data sheet in	accordance with reg	ulation (EC) No 1907/2	2006	
Trade name: Marabi	u Sketch Marker Heat 6	Stla. 956		
		Version: 1/GB		Date revised: 12.02.2020
Substance number:	0148000000102-956	Replaces Version:	- / GB	Print date: 27.02.20
EC50	>	1000	mg/l	
12.2. Persistence	e and degradabilit	у		
General infor	mation	-		
No data avai	lable			
Biodegradabi	lity (Components)			
1-Methoxy-2-p	propanol	00	0/	
Value Duration of te	est	90 28 d	%	
evaluation	Read	ily biodegradable (acco	rding to OECD crit	teria)
Method	OECI	O 301 F		
12.3. Bioaccumu	Iative potential			
General infor				
	data available on the			
	ficient: n-octanol/w			
Remarks		ot applicable		
12.4. Mobility in				
General infor				
There are no	data available on the	mixture itself.		
12.5. Results of	PBT and vPvB as	sessment		
General infor				
There are no	data available on the	mixture itself.		
12.6. Other adve	rse effects			
General infor	mation			
There are no	data available on the	mixture itself.		
SECTION 13. D	isposal consid	orations		
		erations		
13.1. Waste treat				
=	ommendations for t to enter drains or wate	-		
			ordance with relev	ant national regulation.
		assification of this produ		
EWC waste			aining dangerous	substances ay no longer apply and the
	code should be assigned	-		ty no longer apply and the
For further in	formation contact your	local waste authority.		
•	ommendations for p			
5	•	<b>3</b>	e should be obtain	ed from the relevant waste
	the classification of em iners must be scrapped			
		ous waste (waste code	number 150110).	
	non on out to fairs			
SECTION 14: T	ransport inform	lation		

Substance number: 014800	Version: 00000102-956 Replaces	1 / GB Version: - / GB	Marat Date revised: 12.02.2020 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		3	3
14.4. Packing group	П	П	П
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).

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

-	_	lation (EC) No 1907/2006	
ade name: Marab	u Sketch Marker Heat 6t	-	Dete revised: 12.02.202
	0440000000400 050	Version: 1/GB	Date revised: 12.02.2020 Print date: 27.02.20
ubstance number:	0148000000102-956	Replaces Version: - / GB	
H225	Highly	flammable liquid and vapour.	
H226		able liquid and vapour.	
H319		s serious eye irritation.	
H336	es listed in Chapter 3	ause drowsiness or dizziness.	
-	-		
Eye Irrit. 2 Flam. Liq. 2		itation, Category 2 able liquid, Category 2	
Flam. Liq. 3		able liquid, Category 3	
STOT SE 3		ic target organ toxicity - single	exposure. Category 3
Supplementa	•	in the get of generative states of the second	
		e previous version of the safety	v data sheet are marked with: ***
construed as The product to the suppli As the speci for ensuring The informa	s any guarantee of techn should not be used for p er and obtaining written fic conditions of use of th that the requirements of tion contained in this saf	fical performance or suitability for purposes other than those show handling instructions. The product are outside the supply relevant legislation are compli	wn in Section 1 without first referring blier's control, the user is responsible
		Page 13(13)	

MSDS for #82325 - MARABU \$ <del>Safety data sheet in accorda</del>	SKEICH MAR	KEK <del>lation (EC) No 1997/2006</del>	Page
rade name: Marabu Sketch I	Marker Heat 6t	lg. 960	Marabu
		Version: 1/GB	Date revised: 17.02.2020
Substance number: 0148000	000102-960	Replaces Version: - / GB	Print date: 27.02.20
ECTION 1: Identifica	ation of th	e substance/mixture and	d of the
company/undertaking			
1.1. Product identifier Marabu Sketch Marke		0	
1.2. Relevant identified	uses of the	substance or mixture and u	ises advised against
Use of the substance/pr Paint	reparation		
Identified Uses			
SU21		ses: Private households (= general p	oublic = consumers)
PC9a	Coatings and	l paints, thinners, paint removers	
1.3. Details of the suppl		afety data sheet	
Address/Manufacture	-		
Marabu GmbH & Co. Asperger Strasse 4 71732 Tamm	KG		
Germany			
Telephone no.	+49-7141/69		
Fax no. Information provided	+49-7141/69 Department r	product safety	
by / telephone	Dopartmont		
E-mail address of person responsible	PRSI@mara	bu.com	
for this SDS			
<b>1.4. Emergency telepho</b> (+49) (0)621-60-4333			
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	ı to regulati	on (EC) No 1272/2008	
Hazard pictograms	,g		
	>		
Signal word			
Danger			
Hazard statements			
H225 H319		able liquid and vapour. ous eye irritation.	

SDS for #82325 - MARABU <del>afety data sheet in accord</del>	ance with regu	lation (EC)	<del>No 190</del>	7/2006			
ade name: Marabu Sketch	Marker Heat 6t	g. 960					$\backslash \backslash /$
		Version:	1 / GE	3		Date revised:	<sup>Магари</sup> 17.02.2020
ubstance number: 014800	0000102-960	Replaces	s Versio	on: -/G	В	Print da	ate: 27.02.20
P101				e produc	t container	or label at hand.	
P102 P210	Keep out of re				ka anan fi	amon and ather ignit	ion
P210	sources. No s		it sunat	es, span	ks, open na	ames and other ignit	ion
P264.1	Wash hands	thoroughly	after ha	ndling.			
P280 P305+P351+P338						otection / face prote minutes. Remove c	
	lenses, if pres	sent and eas	sy to do	. Continu	ue rinsing.		ondot
P501.9	Dispose of co	ontents / cor	ntainer a	as proble	matic was	te.	
.3. Other hazards No special hazards h	ave to be menti	oned					
·							
ECTION 3: Compos	sition/infor	mation o	on ing	gredie	<u>ents</u>		
.2. Mixtures							
Hazardous ingredier	its						
Ethanol CAS No.	64-17-5						
EINECS no.	200-578-6						
Registration no.	01-21194576	10-43					
Concentration	>=	50	<	100	%		
Classification (Regul		272/2008)					
	Flam. Liq. 2 Eye Irrit. 2		H225 H319				
Concentration limite		No 1070/					
Concentration limits	Eye Irrit. 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		272/2008)					
	STOT SE 3		H336				
	Flam. Liq. 3		H226				
ECTION 4: First aid		-					
.1. Description of first	aid measure	es					
General information					tention NI		
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	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	

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

Trade name: Marabu Sketch Marker Heat 6tlg. 960

Version: 1/GB

Substance number: 014800000102-960 Replaces Version: - / GB

Date revised: 17.02.2020 Print date: 27.02.20

ade

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.

**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

	ABU SKETCH MA					Page 20 m
Safety data sheet in acc	ordance with reg	gulation	<del>(EC) No 1907/2</del>	906		
rade name: Marabu Ske	etch Marker Heat	6tla. 960	1			
		0	sion: 1/GB		Date revised:	Marabu 17.02.2020
Substance number: 0148	8000000102-960		places Version:	- / GB		e: 27.02.20
particulates and s be prohibited in a container is not a Comply with the h Advice on protec	spray mist arising opplication area. F opressure vessel. health and safety tion against fire	from the or perso Always I at work I <b>e and e</b>	application of the nal protection set keep in containe aws. Do not allo <b>xplosion</b>	his mixture. Smo ee Section 8. Ne ers of same mat w to enter drain	tact. Avoid the inhalat oking, eating and drink ever use pressure to e erial as the original on s or water courses.	king shall mpty: e.
air.			-			
Classification of f Classification of f Temperature clas	ires B (C		ss / Ignition g	-	cplosion class	
7.2. Conditions for s	afe storage, i	includir	ng any incon	npatibilities		
Requirements for				-		
	ge rooms in which	n filling op			l technological safety a conducting floor. Sto	ore in
Hints on storage	assembly					
Store away from Further information				d strongly acid	materials.	
Observe label pre sources of heat a						
sources of heat a No smoking. Prev kept upright to pre 7.3. Specific end use Paint	and direct sunlight vent unauthorised event leakage. <b>e(s)</b>	t. Keep co d access.	ontainer tightly c Containers whi	closed. Keep aw ch are opened r	ay from sources of igr nust be carefully resea	nition.
sources of heat a No smoking. Prev kept upright to pre 7.3. Specific end use Paint SECTION 8: Expos	and direct sunlight vent unauthorised event leakage. e(s) sure contro	t. Keep co d access.	ontainer tightly c Containers whi	closed. Keep aw ch are opened r	ay from sources of igr	nition.
sources of heat a No smoking. Prev kept upright to pre 7.3. Specific end use Paint SECTION 8: Expose 8.1. Control parame	and direct sunlight vent unauthorised event leakage. e(s) <u>sure contro</u> ters	t. Keep co d access.	ontainer tightly c Containers whi	closed. Keep aw ch are opened r	ay from sources of igr	nition.
sources of heat a No smoking. Prev kept upright to pre 7.3. Specific end use Paint SECTION 8: Expos 8.1. Control parame Exposure limit va	and direct sunlight vent unauthorised event leakage. e(s) <u>sure contro</u> ters	t. Keep co d access.	ontainer tightly c Containers whi	closed. Keep aw ch are opened r	ay from sources of igr	nition.
sources of heat a No smoking. Prev kept upright to pre 7.3. Specific end use Paint SECTION 8: Expose 8.1. Control parame	and direct sunlight vent unauthorised event leakage. e(s) <u>sure contro</u> ters alues	t. Keep co d access.	ontainer tightly c Containers whi	closed. Keep aw ch are opened r	ay from sources of igr	nition.
sources of heat a No smoking. Prev kept upright to prev 7.3. Specific end use Paint SECTION 8: Expose 8.1. Control parame Exposure limit va List Type Value	and direct sunlight vent unauthorised event leakage. e(s) <u>sure contro</u> ters alues E V 1	t. Keep co d access. <b>Is/per:</b> EH40 VEL	ontainer tightly o Containers whi <b>Sonal prote</b>	closed. Keep aw ch are opened r	ay from sources of igr nust be carefully resea	nition.
sources of heat a No smoking. Prev kept upright to prev 7.3. Specific end use Paint SECTION 8: Expose 8.1. Control paramet Exposure limit va Ethanol List Type Value Status: 2011 1-Methoxy-2-prop List Type Value Short term expos	and direct sunlight vent unauthorised event leakage. e(s) Sure control ters alues E anol E M 3 sure limit 5	t. Keep cd d access. <b>Is/per:</b> EH40 VEL 920 EH40 VEL 920 EH40 VEL 925 560	ontainer tightly o Containers whi sonal prote	closed. Keep aw ch are opened r	ay from sources of igr nust be carefully resea	nition.
sources of heat a No smoking. Prev kept upright to prev 7.3. Specific end use Paint SECTION 8: Expose 8.1. Control paramet Exposure limit va Ethanol List Type Value Status: 2011 1-Methoxy-2-prop List Type Value Short term expos Skin resorption / 3	and direct sunlight vent unauthorised event leakage. e(s) Sure control ters alues E anol E Sure limit 5 sensibilisation: Sk	t. Keep cd d access. <b>Is/per:</b> EH40 VEL 920 EH40 VEL 875 660 k; Statu	mg/m <sup>3</sup> mg/m <sup>3</sup> us: 2011	closed. Keep aw ch are opened r ection 1000	ppm(V)	nition.
sources of heat a No smoking. Prev kept upright to prev 7.3. Specific end use Paint SECTION 8: Expose 8.1. Control paramet Exposure limit va Ethanol List Type Value Status: 2011 1-Methoxy-2-prop List Type Value Short term expos	and direct sunlight vent unauthorised event leakage. e(s) Sure control ters alues anol Event sensibilisation: Sk hal Effect Level V Sure L v Sure L v	t. Keep od d access. Is/pers H40 VEL 920 EH40 VEL 375 i60 k; Statu Is (DNEI	mg/m <sup>3</sup> mg/m <sup>3</sup> mg/m <sup>3</sup> us: 2011 L/DMEL) o Effect Level (I	elosed. Keep aw ch are opened r ection 1000 100 150	ppm(V)	nition.

ade name: Marabu Sketch Marke	r Heat 6tlc	960		
		Version: 1/GB	Date revised: 17.02.202	
ubstance number: 014800000010	)2-960	Replaces Version: - / GB	Print date: 27.02.2	
Duration of exposure	Shor	t term		
Route of exposure		ative		
Mode of action	Loca	leffects		
Concentration		1900	mg/m³	
Type of value		ved No Effect Level (DNEL)		
Reference group	Worl			
Duration of exposure		term		
Route of exposure	derm			
Mode of action	Syste	emic effects	$m \alpha / t \alpha / d$	
Concentration		343	mg/kg/d	
Type of value		ved No Effect Level (DNEL)		
Reference group		sumer		
Duration of exposure		term		
Route of exposure	inhal			
Mode of action	Syste	emic effects		
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	ved No Effect Level (DNEL)		
Reference group		sumer		
Duration of exposure	Long	term		
Route of exposure	derm	nal		
Mode of action	Syste	emic effects		
Concentration		206	mg/kg/d	
Type of value	Deriv	ved No Effect Level (DNEL)		
Reference group		sumer		
Duration of exposure		term		
Route of exposure	oral			
Mode of action	Syste	emic effects		
Concentration		87	mg/kg/d	
1-Methoxy-2-propanol				
Type of value	Deriv	/ed No Effect Level (DNEL)		
Reference group	Work			
Duration of exposure	Acut			
Route of exposure	inhal			
Mode of action	Loca	l effects		
Concentration		553,5	mg/m³	
Type of value	Deriv	ved No Effect Level (DNEL)		
Reference group	Work	, , , , , , , , , , , , , , , , , , ,		
Duration of exposure		term		
Route of exposure	derm			
Mode of action	Syste	emic effects		
Concentration	-	50,6	mg/person/	
			d	
Type of value	Daris	ved No Effect Level (DNEL)		

Safety data sheet in accordance with			
rade name: Marabu Sketch Marker H	eat 6tl	g. 960	
		Version: 1 / GB	Date revised: 17.02.2020
Substance number: 0148000000102-	960	Replaces Version: - / GB	Print date: 27.02.20
Reference group	Wor	ker	
Duration of exposure		g term	
Route of exposure		lative	
Mode of action		emic effects	
Concentration	- )	369	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure		g term	
Route of exposure	derr		
Mode of action		emic effects	
Concentration	Cyc	18,1	mg/kg
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure		g term	
		lative	
Route of exposure			
Mode of action	Sys	emic effects	
Concentration		43,9	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure		g term	
	oral	gtenn	
Route of exposure Mode of action		amia offecto	
	Sys	emic effects	
Concentration		3,3	mg/kg/d
Predicted No Effect Concent	ration	(PNEC)	
Ethanol			
Type of value	PNE	C	
Type	Free	shwater	
Concentration		0,96	mg/l
Type of value	PNE	C	
Type		water	
Concentration	ean	0,79	mg/l
Type of value	PNE	-	
Туре	Wat	er (intermittent release)	
Concentration		2,75	mg/l
Type of value	PNE		
Туре	Sew	age treatment plant (STP)	
Concentration		580	mg/l
Concentration	PNE	C	
Type of value	<b>Free</b>	hwater sediment	
Type of value	- ries	3,6	mg/kg
	Fies	-1-	
Type of value Type Concentration	PNE		
Type of value Type Concentration Type of value	PNE	C	
Type of value Type Concentration	PNE		mg/kg
Type of value Type Concentration Type of value Type Concentration	PNE Mar	C ne sediment 2,9	mg/kg
Type of value Type Concentration Type of value Type Concentration Type of value	PNE Mar PNE	C ne sediment 2,9	mg/kg
Type of value Type Concentration Type of value Type Concentration	PNE Mar	C ne sediment 2,9	mg/kg mg/kg

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afety data sheet in ac	ABU SKETCH MARKE	R <del>ion (EC) No 1907/2006</del>	Page
-	ketch Marker Heat 6tlg.		Date revised: 17.02.202
ubstance number: 01		Replaces Version: - / GB	Print date: 27.02.2
1-Methoxy-2-pro	panol		
Type of value	PNEC		
Туре	Freshv		
Concentration		10	mg/l
Type of value	PNEC		
Туре	Water		
Concentration		41,6	mg/kg
Type of value	PNEC		
Туре	Sedim		
Concentration		41,6	mg/kg
Type of value	PNEC		
Туре	Marine	esediment	
Concentration		4,17	mg/kg
Type of value	PNEC		
Туре	Soil	0.47	
Concentration		2,47	mg/kg
Type of value	PNEC		
Type Concentration	Sewag	ge treatment plant (STP) 100	mg/l
2. Exposure cont			
exhaust ventilat	ite ventilation. Where reation and good general ex		d be achieved by the use of local ient to maintain concentrations of otection must be worn.
Respiratory prof	tection		
If workers are ex respirators. Full		s above the exposure limit the	y must use appropriate, certified
Hand protection	1		
Thore is no one	alove material or comb	ination of materials that will aiv	
individual or cor For prolonged o Material thickne	mbination of chemicals. or repeated handling nitri ess > 0	ile rubber gloves with textile un ,5 mm	e unlimited resistance to any dergloves are required.
individual or cor For prolonged o Material thickne Breakthrough tir The breakthroug	mbination of chemicals. or repeated handling nitri ess > 0 me < 3 gh time must be greater and information provide	ile rubber gloves with textile un ,5 mm 0 min than the end use time of the p	dergloves are required.
individual or cor For prolonged o Material thickne Breakthrough tir The breakthroug The instructions replacement mu Gloves should b Always ensure t The performanc	mbination of chemicals. or repeated handling nitri ess > 0, me < 30 gh time must be greater and information provide ust be followed. be replaced regularly and that gloves are free from	ile rubber gloves with textile un ,5 mm 0 min than the end use time of the p ed by the glove manufacturer o d if there is any sign of damage d defects and that they are stor	ndergloves are required. roduct. on use, storage, maintenance and e to the glove material.
individual or cor For prolonged o Material thickne Breakthrough tir The breakthroug The instructions replacement mu Gloves should b Always ensure t The performanc maintenance. Barrier creams to once exposure l	mbination of chemicals. or repeated handling nitri ess > 0, me < 30 gh time must be greater a and information provide ust be followed. be replaced regularly and that gloves are free from the or effectiveness of the may help to protect the e	ile rubber gloves with textile un 5 mm 0 min than the end use time of the p ed by the glove manufacturer of d if there is any sign of damage a defects and that they are stor e glove may be reduced by phy	ndergloves are required. roduct. on use, storage, maintenance and e to the glove material. ed and used correctly.
individual or cor For prolonged o Material thickne Breakthrough tir The breakthroug The instructions replacement mu Gloves should b Always ensure t The performanc maintenance. Barrier creams i once exposure b	mbination of chemicals. or repeated handling nitri- ess > 0, me < 30 gh time must be greater and information provide ust be followed. be replaced regularly and that gloves are free from that gloves are free from the gloves are free from that gloves are free from the gloves are	ile rubber gloves with textile un 5 mm 0 min than the end use time of the p ed by the glove manufacturer of d if there is any sign of damage a defects and that they are stor e glove may be reduced by phy exposed areas of the skin, they	ndergloves are required. roduct. on use, storage, maintenance and e to the glove material. ed and used correctly. rsical/ chemical damage and poor
individual or cor For prolonged o Material thickne Breakthrough tir The breakthroug The instructions replacement mu Gloves should b Always ensure t The performanc maintenance. Barrier creams i once exposure b	mbination of chemicals. or repeated handling nitri- ess > 0, me < 30, gh time must be greater a and information provide ust be followed. be replaced regularly and that gloves are free from that gloves are free from the or effectiveness of the may help to protect the e- has occurred. wear designed to protect	ile rubber gloves with textile un 5 mm 0 min than the end use time of the p ed by the glove manufacturer of d if there is any sign of damage a defects and that they are stor e glove may be reduced by phy	ndergloves are required. roduct. on use, storage, maintenance and e to the glove material. ed and used correctly. rsical/ chemical damage and poor

### **SECTION 9: Physical and chemical properties**

Item Numbers: 82325-1003

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ISDS for #82325 - MARABU SKETCH <del>Safety data sheet in accordance with</del>	regulat	i <del>on (EC) No 1907/2</del>	006		
rade name: Marabu Sketch Marker H	eat 6tlg.	960		N	
		Version: 1/GB		Date revised: 17.02.202	
Substance number: 0148000000102-9	60	Replaces Version:	- / GB	Print date: 27.02.	
			_		
0.1. Information on basic physi Form	cal and Liquid	d chemical prop	perties		
Colour	green				
Odour	solven	t-like			
Odour threshold					
Remarks	No dat	ta available			
pH value	110 000				
Remarks	Not an	plicable			
Melting point	norup	photolo			
Remarks	not de	termined			
Freezing point	not de				
Remarks	not de	termined			
Initial boiling point and boilin Value		<b>5</b> 78	°C		
	appr.	10	C		
Flash point		12	°C		
		12	-0		
Evaporation rate (ether = 1) :		(			
Remarks	not de	termined			
Flammability (solid, gas) Not applicable					
Upper/lower flammability or e	explosiv	ve limits			
Lower explosion limit	appr.	1,5	%(V)		
Upper explosion limit Source	appr. Literat	15 ure value	%(V)		
Vapour pressure	Enterat				
Value	appr.	59	hPa		
Vapour density	uppi.	00	in a		
Remarks	not de	termined			
Density	not de	termined			
Remarks	not do	termined			
	not de	termined			
Solubility in water	portial	ly missible			
Remarks	•	ly miscible			
Partition coefficient: n-octane Remarks					
	ποι αρ	plicable			
Ignition temperature	0000	207	°C		
Value Source	appr. Literat	287 ure value	-0		
Efflux time	Literat				
Value	<	12	S		
Temperature		20 °C	3		
Method	DIN 53	3211 4 mm			
Explosive properties					
evaluation	no				
Oxidising properties					
evaluation	None I	known			
9.2. Other information					

Safety data sheet in accordance v	CH MAR <del>vith regu</del>	N⊏K <del>lation (EC) No 1</del> !	907/2006	Page
Trade name: Marabu Sketch Marke	п пеат от	0		Marab Marab
		Version: 1/0	-	Date revised: 17.02.2020
Substance number: 01480000010	02-960	Replaces Vers	sion: -/GB	Print date: 27.02.20
			d refer to the used	safety relevant component(s).
SECTION 10: Stability an 10.1. Reactivity	<u>u reac</u>			
No hazardous reactions whe	en storec	and handled acc	ording to prescribe	d instructions.
10.2. Chemical stability Stable under recommended	l storage	and handling con	ditions (see section	7).
10.3. Possibility of hazardou Keep away from oxidising a exothermic reactions.			d strongly acid mate	erials in order to avoid
<b>10.4. Conditions to avoid</b> When exposed to high temp	peratures	may produce haz	zardous decomposi	tion products.
10.5. Incompatible materials		.,,		
No hazardous reactions who		and handled acc	ording to prescribe	d instructions.
See chapter 5.2 (Firefighting			rds arising from the	substance or mixture).
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	o <b>gical e</b> Based	effects	, the classification o	criteria are not met.
11.1. Information on toxicolo Acute oral toxicity	o <b>gical e</b> Based	effects	, the classification c	criteria are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks	o <b>gical e</b> Based	on available data		
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50	Based	effects	, the classification o	
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species	Based Based onents)	on available data		sg
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	on available data 5200 on available data	mg/k	sg
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	Based Donents) rat Based	on available data 5200 on available data	mg/k	sg
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	on available data 5200 on available data	mg/k	sg
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	Based Donents) rat Based nponen	on available data 5200 on available data	mg/k	kg 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	Based Donents) rat Based nponen rabbit	effects on available data 5200 on available data ts)	mg/k , the classification o	kg 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	Based pnents) rat Based nponen rabbit	effects on available data 5200 on available data ts) 14000	mg/k , the classification o	kg criteria are not met. 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	Based pnents) rat Based nponen rabbit	effects on available data 5200 on available data ts) 14000	mg/k , the classification c mg/k	kg criteria are not met. 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 Remarks	Digical e Based Dinents) rat Based nponen rabbit Based	effects on available data 5200 on available data ts) 14000 on available data	mg/k , the classification c mg/k	kg criteria are not met. kg 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	Digical e Based Dinents) rat Based mponen rabbit Based Based	effects on available data 5200 on available data ts) 14000 on available data	mg/k , the classification o mg/k , the classification o	kg criteria are not met. kg criteria are not met.
<ul> <li>11.1. Information on toxicold Acute oral toxicity Remarks</li> <li>Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity Remarks</li> <li>Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> <li>Serious eye damage/irritation evaluation</li> </ul>	Digical e Based Dinents) rat Based mponen rabbit Based Based tion irritant	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/k , the classification o mg/k , the classification o , the classification o	kg criteria are not met. kg criteria are not met.
<ul> <li>11.1. Information on toxicold Acute oral toxicity Remarks</li> <li>Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity Remarks</li> <li>Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> <li>Serious eye damage/irritation Remarks</li> </ul>	Digical e Based Dinents) rat Based mponen rabbit Based Based tion irritant	effects on available data 5200 on available data ts) 14000 on available data	mg/k , the classification o mg/k , the classification o , the classification o	kg criteria are not met. kg 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/irritation evaluation	Digical e Based Dinents) rat Based mponen rabbit Based Based tion irritant	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/k , the classification o mg/k , the classification o , the classification o	kg criteria are not met. kg criteria are not met.
<ul> <li>11.1. Information on toxicold Acute oral toxicity Remarks</li> <li>Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity Remarks</li> <li>Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> <li>Serious eye damage/irritation Remarks</li> </ul>	bgical e Based bnents) rat Based nponen rabbit Based Based tion irritant The cla	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/k , the classification o mg/k , the classification o , the classification o	kg criteria are not met. kg criteria are not met. criteria are not met.
<ul> <li>11.1. Information on toxicold Acute oral toxicity Remarks</li> <li>Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity Remarks</li> <li>Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> <li>Serious eye damage/irritat evaluation Remarks</li> <li>Sensitization</li> </ul>	bgical e Based bnents) rat Based nponen rabbit Based Based tion irritant The cla	effects on available data 5200 on available data ts) 14000 on available data on available data	mg/k , the classification o mg/k , the classification o , the classification o a are met.	kg criteria are not met. kg criteria are not met. criteria are not met.
<ul> <li>11.1. Information on toxicold Acute oral toxicity Remarks</li> <li>Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity Remarks</li> <li>Acute dermal toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> <li>Serious eye damage/irritat evaluation Remarks</li> <li>Sensitization Remarks</li> </ul>	bgical e Based bnents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data 5200 on available data ts) 14000 on available data on available data assification criteria on available data	mg/k , the classification o mg/k , the classification o , the classification o a are met.	criteria are not met. Sg criteria are not met. criteria are not met.
<ul> <li>11.1. Information on toxicold Acute oral toxicity Remarks</li> <li>Acute oral toxicity (Composite 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity Remarks</li> <li>Acute dermal toxicity (Cort 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> <li>Serious eye damage/irritation Remarks</li> <li>Sensitization Remarks</li> <li>Mutagenicity</li> </ul>	bgical e Based bnents) rat Based mponen rabbit Based tion irritant The cla Based	effects on available data 5200 on available data ts) 14000 on available data on available data assification criteria on available data	mg/k , the classification of mg/k , the classification of , the classification of a are met. , the classification of	criteria are not met. Sg criteria are not met. criteria are not met.

limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In	Marker Heat 6th Marker Heat 6th D000102-960 Based of Based of Base	ation (EC) g. 960 Version Replace on available on available on available ation criter ours conce ects such a und central ss, drowsin ve effects emoval of the skin. The use nause ts and also	: 1 / GB es Version: le data, the le data, the le data, the la data, the ria are not m entration in e s mucous m nervous sy: ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	- / GB classification cr classification cr classification cr classification cr net. excess of the st nembrane and r sterm. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	Date revised: 17.02.2020 Print date: 27.02.20 iteria are not met. iteria are not met. iteria are not met. iteria are not met. ated occupational exposure respiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where ents from short-term and
Substance number: 0148000 Carcinogenicity Remarks Specific Target Orga Single exposure Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practice Exposure to compone limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may cause as contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	Based of n Toxicity (ST Based of Based	Version Replace on availabl <b>TOT)</b> on availabl on availabl ation criter ours conce ects such a ind central ss, drowsin ve effects emoval of l eskin. The use nause ts and also	es Version: le data, the le data, the le data, the la are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	classification cr classification cr classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	Print date: 27.02.20 iteria are not met. iteria are not met. iteria are not met. iteria are not met. ated occupational exposure espiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Substance number: 0148000 Carcinogenicity Remarks Specific Target Orga Single exposure Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practice Exposure to compone limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may cause as contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	Based of n Toxicity (ST Based of Based	Version Replace on availabl <b>TOT)</b> on availabl on availabl ation criter ours conce ects such a ind central ss, drowsin ve effects emoval of l eskin. The use nause ts and also	es Version: le data, the le data, the le data, the la are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	classification cr classification cr classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	Print date: 27.02.20 iteria are not met. iteria are not met. iteria are not met. iteria are not met. ated occupational exposure espiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Carcinogenicity Remarks Specific Target Orga Single exposure Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practice Exposure to compone limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	Based of n Toxicity (ST Based of Based of Based Based of Based of Based of Based of Based of Based of Based of Based of Based of Based of	Replace on availabl <b>TOT)</b> on availabl on availabl ation criter ours conce ects such a ind central s, drowsin ve effects emoval of the skin. The use nause ts and also	es Version: le data, the le data, the le data, the la are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	classification cr classification cr classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	Print date: 27.02.20 iteria are not met. iteria are not met. iteria are not met. iteria are not met. ated occupational exposure espiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Carcinogenicity Remarks Specific Target Orga Single exposure Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practice Exposure to compone limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	Based of n Toxicity (ST Based of Based of Based Based of Based of Based of Based of Based of Based of Based of Based of Based of Based of	on available <b>OT</b> on available on available ation criter ours conce ects such a und central sc, drowsin ve effects emoval of the askin. The use nause ts and also	le data, the le data, the le data, the le data, the ria are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	classification cr classification cr classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	iteria are not met. iteria are not met. iteria are not met. iteria are not met. ated occupational exposure espiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Remarks Specific Target Orga Single exposure Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practice Exposure to compone limit may result in add and adverse effects of dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	n Toxicity (ST Based of Based	on availabl on availabl ation criter ours conce ects such a and central s, drowsin ve effects emoval of n e skin. The use nause ts and also	le data, the le data, the ia are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea chronic effe	classification cr classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	iteria are not met. iteria are not met. ated occupational exposure respiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Remarks Specific Target Orga Single exposure Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practice Exposure to compone limit may result in add and adverse effects of dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	n Toxicity (ST Based of Based	on availabl on availabl ation criter ours conce ects such a and central s, drowsin ve effects emoval of n e skin. The use nause ts and also	le data, the le data, the ia are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea chronic effe	classification cr classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	iteria are not met. iteria are not met. ated occupational exposure respiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Single exposure Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practic Exposure to compone limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may cause as contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	Based of Based of Ce Based of Chase Some of the Based of Chase of the Co Differ of Chase Some of the Chase of Chase of Chase Some of the Chase of Chase of Chase Some of the Chase of Chase of Chase of Chase Some of the Chase of Chase	on availabl on availabl ation criter ours conce cts such a ind central s, drowsin ve effects emoval of n e skin. The use nause ts and also	le data, the ria are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	iteria are not met. ated occupational exposure espiratory system irritation loss and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practic Exposure to compone limit may result in adv and adverse effects or dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	Based of ata, the classifica ce ent solvents vapor verse health effe on kidney, liver a uscular weaknes some of the abor ure may cause re otion through the ngestion may cau	on available ation criter ours conce ects such a und central ss, drowsin ve effects emoval of le skin. The use nause ts and also	le data, the ria are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	iteria are not met. ated occupational exposure espiratory system irritation loss and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Remarks Repeated exposure Remarks Aspiration hazard Based on available da Experience in practic Exposure to compone limit may result in adv and adverse effects or dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	Based of ata, the classifica ce ent solvents vapor verse health effe on kidney, liver a uscular weaknes some of the abor ure may cause re otion through the ngestion may cau	on available ation criter ours conce ects such a und central ss, drowsin ve effects emoval of le skin. The use nause ts and also	le data, the ria are not m entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	classification cr net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	iteria are not met. ated occupational exposure espiratory system irritation loss and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Remarks Aspiration hazard Based on available di Experience in praction Exposure to compone limit may result in add and adverse effects of dizziness, fatigue, mu Solvents may cause s contact with the mixtur dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	Based of ata, the classification ce ent solvents vap- verse health effe on kidney, liver a uscular weaknes some of the abor- ure may cause re- botion through the ngestion may cause immediate effect	ation criter ours conce ects such a snd central s, drowsin ve effects emoval of i eskin. The use nause ts and also	ia are not m entration in e s mucous m nervous sy ess and in e by absorption natural fat fr liquid splas a, diarrhoea chronic effe	net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes and vomiting.	ated occupational exposure respiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Aspiration hazard Based on available da Experience in practice Exposure to compone limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may causes contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	ata, the classificates ce ent solvents vap- verse health effe on kidney, liver a uscular weaknes some of the abor ure may cause re otion through the ngestion may cau	ation criter ours conce ects such a snd central s, drowsin ve effects emoval of i eskin. The use nause ts and also	ia are not m entration in e s mucous m nervous sy ess and in e by absorption natural fat fr liquid splas a, diarrhoea chronic effe	net. excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes and vomiting.	ated occupational exposure respiratory system irritation is and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Based on available da Experience in practic Exposure to compone limit may result in add and adverse effects of dizziness, fatigue, mu Solvents may cause a contact with the mixtur dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data ava The mixture has been	ce ent solvents vap verse health effe on kidney, liver a uscular weaknes some of the abour ure may cause re otion through the ngestion may cause mmediate effect	ours conce ects such a ind central ss, drowsin ve effects emoval of i e skin. The use nause ts and also	entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	espiratory system irritation as and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Experience in practice Exposure to component limit may result in advectional and adverse effects of dizziness, fatigue, mut Solvents may cause as contact with the mixtur dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b Other information There are no data avait The mixture has been	ce ent solvents vap verse health effe on kidney, liver a uscular weaknes some of the abour ure may cause re otion through the ngestion may cause mmediate effect	ours conce ects such a ind central ss, drowsin ve effects emoval of i e skin. The use nause ts and also	entration in e s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea o chronic effe	excess of the st nembrane and r stem. Symptom extreme cases, on through the s om the skin res hed in the eyes a and vomiting.	espiratory system irritation as and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
Exposure to component limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b <b>Other information</b> There are no data ava The mixture has been	ent solvents vap verse health effe on kidney, liver a uscular weaknes some of the abor ure may cause re otion through the ngestion may cau immediate effect	ects such a and central as, drowsin ve effects emoval of e skin. The use nause ts and also	s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea chronic effe	nembrane and r stem. Symptom extreme cases, on through the s rom the skin res hed in the eyes a and vomiting.	espiratory system irritation as and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
limit may result in adv and adverse effects of dizziness, fatigue, mu Solvents may cause s contact with the mixtu dermatitis and absorp reversible damage. In known, delayed and i long-term exposure b <b>Other information</b> There are no data ava The mixture has been	verse health effe on kidney, liver a uscular weaknes some of the aboure may cause re otion through the ngestion may cau immediate effect	ects such a and central as, drowsin ve effects emoval of e skin. The use nause ts and also	s mucous m nervous sys ess and in e by absorption natural fat fr liquid splas a, diarrhoea chronic effe	nembrane and r stem. Symptom extreme cases, on through the s rom the skin res hed in the eyes a and vomiting.	espiratory system irritation as and signs include headache, loss of consciousness. skin. Repeated or prolonged sulting in non-allergic contact may cause irritation and This takes into account, where
There are no data ava The mixture has beer			hal routes of		eye contact.
There are no data ava The mixture has beer					
	n assessed follow	wing the a	dditivity met		Regulation (EC) No
SECTION 12: Ecolog 12.1. Toxicity	ical inform	ation			
General information					
There are no data ava	sessed following	the summ	ation metho		ns or water courses.The egulation (EC) No 1272/2008
Fish toxicity (Compo	onents)				
1-Methoxy-2-propano	-				
Species	0	•	iscus idus)		
LC0 Duration of exposure	>	4600 96	h	mg/l	
Daphnia toxicity (Co					
1-Methoxy-2-propano					
Species		a magna			
EC50		23300		mg/l	
Duration of exposure		48	h		
Algae toxicity (Comp	-				
1-Methoxy-2-propano Species		desmus			
EC50	> Desmo	1000		mg/l	
Duration of exposure		168	h	Č.	
Bacteria toxicity (Co	mponents)				
1-Methoxy-2-propano Species		ed sludge			

MSDS for #82325 - MA	ARABU SKETCH MAR	KER		Page 37 of 7
Safety data sheet in a	accordance with regu	lation (EC) No 1907/2	006	
Trade name: Marabu	Sketch Marker Heat 6t	la. 960		
		Version: 1/GB		Date revised: 17.02.2020
Substance number: 0	0148000000102-960	Replaces Version:	- / GB	Print date: 27.02.20
EC50	>	1000	mg/l	
12.2. Persistence	and degradability	,		
General inform				
No data availa				
_	ity (Components)			
<b>1-Methoxy-2-p</b> Value	ropanol	90	%	
Duration of te	st	28 d	70	
evaluation Method	Readily	y biodegradable (accor	ding to OECD crit	teria)
		301 F		
12.3. Bioaccumul	-			
General inform	data available on the m	nixture itself		
	icient: n-octanol/wa			
Remarks		applicable		
12.4. Mobility in s	soil			
General inform				
	data available on the m	nixture itself.		
12.5. Results of P	PBT and vPvB asso	essment		
General inform				
	data available on the m	nixture itself.		
12.6. Other adver	se effects			
General inform				
	data available on the m	nixture itself.		
		-		
SECTION 13: Di	isposal conside	rations		
13.1. Waste treatr	ment methods			
Disposal recor	mmendations for the	e product		
	to enter drains or water			
	n Waste Catalogue clas			vant national regulation. I of as waste is
EWC waste c	ode 08.03 <sup>·</sup>	12* waste ink contained	aining dangerous	substances
		-	e product code ma	ay no longer apply and the
	ode should be assigned ormation contact your l			
	mmendations for pa			
	•		should be obtain	ed from the relevant waste
	he classification of emp			
	ners must be scrapped containers are hazardou		umber 150110)	
not omptiod e				
SECTION 14: Tr	ansport inform	<u>ation</u>		

	Version:		Date revised: 17.02.2020 Print date: 27.02.20
Substance number: 014800	00000102-960 Replaces	Version: - / GB	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	П	П
Special provision	640D		
Limited Quantity	51		
Transport category	3		
14.5. Environmental hazards		no	
	-		_

## Information for all modes of transport

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).

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## 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 Heat 6	tlg. 960	
		Version: 1 / GB	Date revised: 17.02.2020
Substance number:	0148000000102-960	Replaces Version: - / GB	Print date: 27.02.20
H225		flammable liquid and vapour.	
H226		nable liquid and vapour.	
H319 H336		es serious eye irritation. ause drowsiness or dizziness.	
_	es listed in Chapter		
Eye Irrit. 2 Flam. Liq. 2		ritation, Category 2 nable liquid, Category 2	
Flam. Liq. 2		nable liquid, Category 3	
STOT SE 3		fic target organ toxicity - single expo	sure. Category 3
	al information		
		e previous version of the safety data	a sheet are marked with: ***
construed as The product to the suppli As the speci for ensuring The informa	s any guarantee of techr should not be used for p ier and obtaining written ific conditions of use of t that the requirements of tion contained in this saf	ty and environmental aspects of the nical performance or suitability for p purposes other than those shown in handling instructions. he product are outside the supplier' f relevant legislation are complied w fety data sheet does not constitute t r health and safety legislation.	articular applications. Section 1 without first referring s control, the user is responsible <i>r</i> ith.

Safety data sheet in accord	lance with regu	Hation (EC) No 1907/2006	
Frade name: Marabu Sketch	n Marker Heat 6t	lg. 974	
		Version: 1 / GB	Marab Date revised: 17.02.2020
Substance number: 014800	0000102-974	Replaces Version: - / GB	Print date: 27.02.20
ECTION 1: Identific		e substance/mixture a	nd of the
1.1. Product identifier Marabu Sketch Mark		4	
1.2. Relevant identified	l uses of the	substance or mixture and	uses advised against
Use of the substance/p Paint	preparation		
Identified Uses			
SU21 PC9a		ses: Private households (= genera paints, thinners, paint removers	I public = consumers)
1.3. Details of the supp	olier of the sa	afety data sheet	
Marabu GmbH & Co Asperger Strasse 4 71732 Tamm Germany Telephone no. Fax no. Information provided by / telephone E-mail address of person responsible for this SDS	+49-7141/69 +49-7141/69	1-147 product safety	
1.4. Emergency teleph (+49) (0)621-60-433			
ECTION 2: Hazards	s identifica	tion	
2.1. Classification of th	ne substance	e or mixture	
Classification (Regu	lation (EC) No	o. 1272/2008)	
Classification (Regul			
	Flam. Liq. 2 Eye Irrit. 2	H225 H319	
	STOT SE 3	H336	
2.2. Label elements			
Labelling accordin	q to requlati	on (EC) No 1272/2008	
Hazard pictograms	0 0		
Signal word Danger			
Hazard statements			
H225	Highly flamm	able liquid and vapour.	

Page 1(13)

ade name: Marabu Sketch M ubstance number: 01480000 H336 <b>Precautionary statem</b> P101 P102	000102-974 May cause drov	974 Version: Replaces		5		
H336 <b>Precautionary statem</b> P101	May cause drov			<b>i</b>		
H336 <b>Precautionary statem</b> P101	May cause drov	Replaces				Date revised: 17.02.202
Precautionary statem P101			s Versio	n: -/(	GB	Print date: 27.02.2
P101		vsiness o	r dizzine	ess.		
-						
P102				e produ	ct container	or label at hand.
D010	Keep out of read					man and other institut
P210	sources. No sm		n surrac	es, spa	rks, open fla	mes and other ignition
P264.1	Wash hands the		after har	ndlina.		
P271	Use only outdoo				area.	
P280						otection / face protection.
P305+P351+P338	IF IN EYES: Rir	se cautio	ously wit	h water	for several r	minutes. Remove contact
P405	lenses, if preser		sy to do	. Contin	iue rinsing.	
P405	Store locked up		tainara	e probl	omotio woota	2
P501.9	Dispose of cont					
Hazardous componer	· ·		label	Regul	ation (EC)	No. 1272/2008)
contains	1-Methoxy-2-pro	opanol				
.3. Other hazards						
No special hazards ha	ve to be mention	ed.				
ECTION 3: Composi	ition/inform	ation /	n in/	irodi	onte	
			~	<u>,</u>		
.2. Mixtures						
Hazardous ingredient	S					
Ethanol						
CAS No.	64-17-5					
EINECS no.	200-578-6					
Registration no.	01-2119457610	-43				
Concentration		0	<	100	%	
	-	-				
Classification (Regulat		2/2008)	11005			
	Flam. Liq. 2		H225			
	Eye Irrit. 2		H319			
Concentration limits (F						
	Eye Irrit. 2	H319	>= :	50 %		
1-Methoxy-2-propanol	407 00 5					
CAS No.	107-98-2					
EINECS no.	203-539-1					
Registration no.	01-2119457435				<i></i>	
Concentration	>= 2	5	<	50	%	
Classification (Regulat	tion (EC) No. 127	2/2008)				
Classification (Regula	STOT SE 3		H336			
	Flam. Liq. 3		H226			
	. юп. цq. о		11220			
ECTION 4: First aid	measures					
.1. Description of first	aid measures					
General information						
		• •				ver give anything by mouth
to an unconscious per	son. It unconscio	us place	in recov	ery pos	mon and see	ek medical advice.
After inhalation						

MSDS for #82325 - MARABU SKETCH MAR		Page
Safety data sheet in accordance with regul	anon (EC) NO 1907/2006	
rade name: Marabu Sketch Marker Heat 6tl	0	Marab
0.44000000400.074	Version: 1/GB	Date revised: 17.02.2020 Print date: 27.02.20
Substance number: 0148000000102-974	Replaces Version: - / GB	Pfint date. 27:02:20
artificial respiration.		
After skin contact		
Remove contaminated clothing. Was cleanser. Do NOT use solvents or thi		ter or use recognised skin
After eye contact		
Remove contact lenses, irrigate copid minutes and seek immediate medical		g the eyelids apart for at least 10
After ingestion	outh with planty of water (only if the	person is conscious) and obtain
If accidentally swallowed rinse the me immediate medical attention. Keep at		person is conscious) and obtain
4.2. Most important symptoms and Until now no symptoms known so far		lyed
4.3. Indication of any immediate me	edical attention and special	treatment needed
Hints for the physician / treatment	:	
Treat symptomatically		
ECTION 5: Firefighting measu	ires	
5.1. Extinguishing media	<u> </u>	
Suitable extinguishing media		
Recommended: alcohol resistant foa	m, CO2, powders, water spray/mist	Not be used for safety reasons:
water jet		-
5.2. Special hazards arising from th In the event of fire the following can b black smoke; Nitrogen oxides (NOx)		; Carbon dioxide (CO2); dense
5.3. Advice for firefighters		
Special protective equipment for f	ire-fighting	
Cool closed containers exposed to fir water courses.	e with water. Do not allow run-off fr	om fire fighting to enter drains or
<b>SECTION 6: Accidental release</b>	measures	
6.1. Personal precautions, protective Exclude sources of ignition and venti measures listed in Sections 7 and 8.		
6.2. Environmental precautions Do not allow to enter drains or watery appropriate authorities in accordance		kes, rivers or sewage, inform
6.3. Methods and material for conta Contain and collect spillage with non- diatomaceous earth and place in con Clean preferably with a detergent - av	-combustible absorbent materials, e tainer for disposal according to loca	
6.4. Reference to other sections Information regarding Safe handling, see Section 8. Information regarding		g personal protective measures,
SECTION 7: Handling and stora	age	
7.1. Precautions for safe handling		
	Page 3(13)	

MSDS for #82325 - MARABU SKETCH	MARKEF	{ 	2000	Page	
Safety data sheet in accordance with	regulatio	on (EC) No 1907/	2006		
Trade name: Marabu Sketch Marker He	eat 6tlg. 9	974			Marabu
		Version: 1/GB		Date revised: 17.02.2	
Substance number: 0148000000102-9	74 F	Replaces Version:	- / GB	Print date: 27.0	2.20
Advice on safe handling					
Prevent the creation of flammal					
concentration higher than the o in areas from which all naked lie					i
equipment should be protected	0		<b>,</b>		s
use earthing leads when transfe					
footwear and clothing and floors and open flame. No sparking to					
particulates and spray mist aris					all
be prohibited in application area					
container is not a pressure ves Comply with the health and safe					
Advice on protection against	2				
Vapours are heavier than air ar air.		-	Vapours may fo	rm explosive mixtures with	
Classification of fires / tempe	rature c	lass / Ignition g	roup / Dust ex	plosion class	
		stible liquid substa	inces)		
Temperature class T	3				
7.2. Conditions for safe storage			npatibilities		
Requirements for storage roc					
Electrical installations/working r standards. Storage rooms in wh accordance with national regula	nich filling				
Hints on storage assembly					
Store away from oxidising agen			nd strongly acid	materials.	
Further information on storage	-				
Observe label precautions. Stor sources of heat and direct sunli					
No smoking. Prevent unauthori					d
kept upright to prevent leakage			•	, ,	
7.3. Specific end use(s)					
Paint					
SECTION & Expective cont	role/n	orconal prot	ootion		
SECTION 8: Exposure cont	1015/06		ection		
8.1. Control parameters					
Exposure limit values					
Ethanol	<b>E</b> 1140				
List Type	EH40 WEL				
Value	1920	mg/m³	1000	ppm(V)	
Status: 2011		-			
1-Methoxy-2-propanol	FUIA				
List Type	EH40 WEL				
Value	375	mg/m³	100	ppm(V)	
Short term exposure limit	560	mg/m <sup>3</sup>	150	ppm(V)	
Skin resorption / sensibilisation		tatus: 2011			
Derived No/Minimal Effect Le					
	Derivor	No Effect Level (			
<b>Ethanol</b> Type of value	Derived	d No Effect Level (	DNEL)		

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afety data sheet in accordance v	with regui	ation (EC) NO 1907/2006	
ade name: Marabu Sketch Marke	er Heat 6tl	g. 974	
		Version: 1/GB	Date revised: 17.02.202
ubstance number: 0148000001	02-974	Replaces Version: - / GB	Print date: 27.02.2
Reference group	Wor	ker	
Duration of exposure	Long	g term	
Route of exposure	inha	lative	
Mode of action	Syst	emic effects	
Concentration		950	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure	Sho	rt term	
Route of exposure	inha	lative	
Mode of action	Loca	al effects	
Concentration		1900	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure		term	
Route of exposure	dern		
Mode of action		emic effects	
Concentration	Cycl	343	mg/kg/d
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		g term	
Route of exposure	•	lative	
Mode of action		emic effects	
Concentration	Cyst	114	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		t term	
Route of exposure		lative	
Mode of action		al effects	
Concentration	LUCA	950	mg/m³
Concentration		930	mg/m²
Type of value		ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		g term	
Route of exposure	dern		
Mode of action		emic effects	
Concentration		206	mg/kg/d
Type of value		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	e	
Route of exposure	inha	lative	
Mode of action		al effects	
Concentration		553,5	mg/m³
Type of value	Deri	ved No Effect Level (DNEL)	

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Safety data sheet in accordance v			
rade name: Marabu Sketch Marke	er Heat 6tlg		Maraba
		Version: 1/GB	Date revised: 17.02.2020
Substance number: 014800000010	02-974	Replaces Version: - / GB	Print date: 27.02.20
Reference group	Wor	(er	
Duration of exposure		term	
Route of exposure	dern		
Mode of action	Syst	emic effects	
Concentration	-	50,6	mg/person/
			d
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group	Worl	· · · · ·	
Duration of exposure		term	
Route of exposure		ative	
Mode of action		emic effects	
Concentration	0,50	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	dern		
Mode of action	Syst	emic effects	
Concentration		18,1	mg/kg
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure		i term	
Route of exposure		ative	
Mode of action	Svst	emic effects	
Concentration	- ,	43,9	mg/m³
Type of value	Deriv	ved No Effect Level (DNEL)	
Reference group		eral Population	
Duration of exposure		i term	
Route of exposure	oral		
Mode of action		emic effects	
Concentration	- ) - :	3,3	mg/kg/d
Dradiated No. Effect Conce			
Predicted No Effect Conce	entration	(PNEC)	
Ethanol Type of value	PNE	C	
Type		hwater	
Concentration		0,96	mg/l
Type of value	PNE	c	
Type		vater	
Concentration	Can	0,79	mg/l
	האיב	G	
Type of value	PNE		
Type Concentration	vvate	er (intermittent release)	~~~/l
Concentration		2,75	mg/l
Type of value	PNE		
Туре	Sew	age treatment plant (STP)	
Concentration		580	mg/l
Type of value	PNE	С	
Type		hwater sediment	
Concentration		3,6	mg/kg

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le name: Marabu Sketch Ma	arker Heat 6tlg. 974	
	Version: 1 / GB	Date revised: 17.02.202
ostance number: 014800000	0102-974 Replaces Version: - / GB	Print date: 27.02.2
Type of value	PNEC	
Туре	Marine sediment	
Concentration	2,9	mg/kg
Type of value	PNEC	
Туре	Soil	
Concentration	0,63	mg/kg
1-Methoxy-2-propanol		
Type of value	PNEC	
Type	Freshwater	
Concentration	10	mg/l
Type of value	PNEC	
Туре	Water	
Concentration	41,6	mg/kg
Type of value	PNEC	
Туре	Sediment	
Concentration	41,6	mg/kg
Type of value	PNEC	
Туре	Marine sediment	
Concentration	4,17	mg/kg
Type of value	PNEC	
Туре	Soil	
Concentration	2,47	mg/kg
Type of value	PNEC	
Туре	Sewage treatment plant (STP)	
Concentration	100	mg/l

## 8.2. 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

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

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

protect s or cov emic al and Liquid black solvent	Version: 1 Replaces V against spl veralls are <b>al prop</b> I <b>chemic</b>	′ersion: - / GB ash of liquids. normally suitabl		Date revised: 17.02.20 Print date: 27.02	
protect s or cov emic al and Liquid black solvent No data	/ersion: 1 Replaces V against spl veralls are <b>al prop</b> I <b>chemic</b> -like	'ersion: - / GB ash of liquids. normally suitabl <b>erties</b>			
protect s or cov emic al and Liquid black solvent No data	Replaces V against spl veralls are <b>al prop</b> I <b>chemic</b> -like	'ersion: - / GB ash of liquids. normally suitabl <b>erties</b>			
protect s or cov emic al and Liquid black solvent No data	against spl veralls are <b>al prop</b> I <b>chemic</b> -like	ash of liquids. normally suitabl <b>erties</b>		Print date: 27.02	2.20
s or cov emic al and Liquid black solvent	veralls are al prop I chemic -like	normally suitabl erties			
s or cov emic al and Liquid black solvent	veralls are al prop I chemic -like	normally suitabl erties			
s or cov emic al and Liquid black solvent	veralls are al prop I chemic -like	normally suitabl erties			
s or cov emic al and Liquid black solvent	veralls are al prop I chemic -like	normally suitabl erties			
emic al and Liquid black solvent No data	al prop I chemic -like	erties			
<b>al and</b> Liquid black solvent No data	l <b>chemic</b> -like		5		
<b>al and</b> Liquid black solvent No data	l <b>chemic</b> -like		5		
Liquid black solvent No data	-like	al properties	5		
black solvent No data					
solvent No data					
No data					
	a available				
	a avallable				
Not app					
Not app					
	blicable				
not det	ermined				
	ermined				
range					
appr.	78		°C		
	12		°C		
not det	ermined				
plosiv	e limits				
appr.	1,5		%(V)		
appr.			%(V)		
Literatu	lie value				
	50		h D a		
appr.	59		nPa		
not det	ermined				
not det	ermined				
-	/ miscible				
Not app	blicable				
appr.	287		°C		
∟iteratu	ire value				
	4.0				
<	12 20	°C	S		
	ot deta olosiva ppr. ppr. iteratu ppr. ot deta oartially water lot app ot appr. iteratu	12 12 12 12 12 12 12 15 15 19pr. 15 19pr. 15 19pr. 59 10t determined 10t determin	appr. 78   12   not determined   blosive limits   appr.   15   appr.   15   appr.   16   aot determined   aot determined   aot determined   aot determined   aot determined   appr.   12	appr.78°C12°Cnot determinedblosive limits appr.%(V)ppr.1,5ppr.15ppr.15ppr.59hPanot determinednot applicablenot applicablenot 12not 12<	appr. 78       °C         12       °C         aot determined       °C         blosive limits       ************************************

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	KETCH MAR	\ER   <mark>ation (EC) No 1907/2006</mark>	Page 18 M
-	-		
Trade name: Marabu Sketch Ma	arker Heat 6tl	0	Marabu
		Version: 1 / GB	Date revised: 17.02.2020
Substance number: 014800000	00102-974	Replaces Version: - / GB	Print date: 27.02.20
Method	DIN	53211 4 mm	
Explosive properties			
evaluation	no		
Oxidising properties			
evaluation	Non	e known	
9.2. Other information			
Other information			
The physical specification	ons are appro	ximate values and refer to the us	sed safety relevant component(s).
SECTION 10: Stability	and reac	tivity	
<b>10.1. Reactivity</b> No hazardous reactions	when stored	and handled according to prescr	ibed instructions.
10.2. Chemical stability Stable under recommen	nded storage a	and handling conditions (see sec	tion 7).
<b>10.3. Possibility of hazard</b> Keep away from oxidisir exothermic reactions.		<b>ions</b> ongly alkaline and strongly acid r	materials in order to avoid
10.4. Conditions to avoid			
		may produce hazardous decomp	position products.
10.5. Incompatible materi	ials		
No hazardous reactions		and handled according to prescr	ribed instructions.
	when stored	and handled according to prescr	ibed instructions.
10.6. Hazardous decomp	when stored	oducts	
<b>10.6. Hazardous decomp</b> See chapter 5.2 (Firefig	when stored osition pro hting measure	oducts es - Special hazards arising from	
10.6. Hazardous decompose See chapter 5.2 (Firefig	when stored osition pro hting measure gical info	oducts es - Special hazards arising from ormation	
<b>10.6. Hazardous decomp</b> See chapter 5.2 (Firefig	when stored osition pro hting measure gical info	oducts es - Special hazards arising from ormation	
10.6. Hazardous decompose See chapter 5.2 (Firefig	when stored osition pro hting measure gical info	oducts es - Special hazards arising from ormation	
<ul> <li>10.6. Hazardous decompose chapter 5.2 (Firefig</li> <li>SECTION 11: Toxicolo</li> <li>11.1. Information on toxic</li> <li>Acute oral toxicity</li> <li>Remarks</li> </ul>	when stored osition pro hting measure gical info cological e Based	oducts es - Special hazards arising from ormation	the substance or mixture).
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity	when stored osition pro hting measure gical info cological e Based	oducts es - Special hazards arising from ormation ffects	the substance or mixture).
10.6. Hazardous decomp See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol	when stored osition pro hting measure gical info cological e Based	oducts es - Special hazards arising from ormation ffects	the substance or mixture).
<ul> <li>10.6. Hazardous decomponent</li> <li>See chapter 5.2 (Firefig</li> <li>SECTION 11: Toxicolo</li> <li>11.1. Information on toxic</li> <li>Acute oral toxicity</li> <li>Remarks</li> <li>Acute oral toxicity (Continuent)</li> <li>1-Methoxy-2-propanol</li> <li>Species</li> </ul>	when stored osition pro hting measure gical info cological e Based	oducts es - Special hazards arising from ormation ffects on available data, the classification	the substance or mixture). on criteria are not met.
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50	when stored osition pro hting measure gical info cological e Based mponents)	oducts es - Special hazards arising from ormation ffects on available data, the classification	the substance or mixture).
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity	when stored osition pro hting measure gical info cological e Based mponents) rat	bducts es - Special hazards arising from brmation ffects on available data, the classificati	n the substance or mixture). on criteria are not met. ng/kg
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	when stored osition pro hting measure gical info cological e Based mponents) rat Based	bducts es - Special hazards arising from brmation ffects on available data, the classificati 5200 m on available data, the classificati	n the substance or mixture). on criteria are not met. ng/kg
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity	when stored osition pro hting measure gical info cological e Based mponents) rat Based	bducts es - Special hazards arising from brmation ffects on available data, the classificati 5200 m on available data, the classificati	n the substance or mixture). on criteria are not met. ng/kg
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Market 1-Methoxy-2-propanol	when stored osition pro hting measure gical info cological e Based mponents) rat Based Component	bducts es - Special hazards arising from brmation ffects on available data, the classificati 5200 m on available data, the classificati	n the substance or mixture). on criteria are not met. ng/kg
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Con 1-Methoxy-2-propanol Species	when stored osition pro hting measure gical info cological e Based mponents) rat Based	bducts es - Special hazards arising from brmation ffects on available data, the classification 5200 m on available data, the classification ts)	n the substance or mixture). on criteria are not met. ng/kg on criteria are not met.
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Mathematical 1-Methoxy-2-propanol Species LD50	when stored osition pro hting measure gical info cological e Based mponents) rat Based Component rabbit	bducts es - Special hazards arising from brmation ffects on available data, the classification 5200 m on available data, the classification ts)	n the substance or mixture). on criteria are not met. ng/kg
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity ( 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity ( 3-Methoxy-2-propanol Species LD50 Acute inhalational toxic	when stored osition pro hting measure gical info cological e Based mponents) rat Based Component rabbit	bducts es - Special hazards arising from brmation ffects on available data, the classification 5200 m on available data, the classification (s) 14000 m	n the substance or mixture). on criteria are not met. ng/kg on criteria are not met.
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity ( 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity ( 1-Methoxy-2-propanol Species LD50 Acute inhalational toxic	when stored osition pro hting measure gical info cological e Based mponents) rat Based Component rabbit	bducts es - Special hazards arising from brmation ffects on available data, the classification 5200 m on available data, the classification ts)	n the substance or mixture). on criteria are not met. ng/kg on criteria are not met.
10.6. Hazardous decompo See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity ( 1-Methoxy-2-propanol Species LD50 Acute inhalational toxic Remarks Skin corrosion/irritatio	when stored osition pro hting measure gical info cological e Based mponents) rat Based Component rabbit city Based	boducts es - Special hazards arising from bormation ffects on available data, the classification 5200 m on available data, the classification (s) 14000 m on available data, the classification	n the substance or mixture). on criteria are not met. ng/kg on criteria are not met. ng/kg on criteria are not met.
10.6. Hazardous decompor See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute inhalational toxic Remarks Skin corrosion/irritation Remarks	when stored osition pro hting measure gical info cological e Based mponents) rat Based Component rabbit city Based n Based	bducts es - Special hazards arising from brmation ffects on available data, the classification 5200 m on available data, the classification (s) 14000 m	n the substance or mixture). on criteria are not met. ng/kg on criteria are not met. ng/kg on criteria are not met.
10.6. Hazardous decompor See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute inhalational toxic Remarks Skin corrosion/irritation Remarks Serious eye damage/irr	when stored osition pro hting measure gical info cological e Based mponents) rat Based Component rabbit city Based n Based riation	boducts es - Special hazards arising from bormation ffects on available data, the classification 5200 m on available data, the classification (s) 14000 m on available data, the classification	n the substance or mixture). on criteria are not met. ng/kg on criteria are not met. ng/kg on criteria are not met.
10.6. Hazardous decompor See chapter 5.2 (Firefig SECTION 11: Toxicolo 11.1. Information on toxic Acute oral toxicity Remarks Acute oral toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity (Con 1-Methoxy-2-propanol Species LD50 Acute inhalational toxic Remarks Skin corrosion/irritation Remarks	when stored osition pro hting measure gical info cological e Based mponents) rat Based Component rabbit city Based n Based riation irritant	boducts es - Special hazards arising from bormation ffects on available data, the classification 5200 m on available data, the classification (s) 14000 m on available data, the classification	n the substance or mixture). on criteria are not met. ng/kg on criteria are not met. ng/kg on criteria are not met.

afety data sheet i	MARABU SKETC	<del>ith regula</del>						
ade name: Marat	ou Sketch Marker	Heat 6tla	974					$\mathbf{N}$
ade name. Marai		ricat olig	Version:	1 / GB		Date revised	· 17.02	Mara
ubstance number:	0148000000102	2-974		Version: -	/ GB		date: 27.0	
Sensitizatio								
Remarks		Based or	n available	data, the cla	assification crite	eria are not met.		
Mutagenicity	/							
Remarks		Based or	n available	data, the cla	assification crite	eria are not met.		
Reproductiv	e toxicity							
Remarks		Based or	n available	data, the cla	assification crite	eria are not met.		
Carcinogeni	city							
Remarks		Based or	n available	data, the cla	assification crite	eria are not met.		
Specific Tar	get Organ Toxi	city (STC	DT)					
Single exp	osure							
Remarks		The clas	sification c	riteria are m	et.			
evaluation		May cau	se drowsin	ess or dizzir	iess.			
Repeated e	exposure	_						
Remarks	_	Based or	n available	data, the cla	assification crite	eria are not met.		
Aspiration h								
	vailable data, the	classifica	tion criteria	are not met				
Experience i	•					ted occupational e		
dermatitis a reversible c known, dela	and absorption thr damage. Ingestion ayed and immedia	ough the s may caus ate effects	skin. The li se nausea, and also c	quid splashe diarrhoea a hronic effec	d in the eyes n nd vomiting. Th ts of componer	Iting in non-allergi nay cause irritation his takes into acco hts from short-tern	n and ount, whe	
-	exposure by oral, i	inhalation	and derma	I routes of e	xposure and ey	ye contact.		
Other inform								
The mixture	no data available of has been asses and classified for	sed follow	ing the add	,		Regulation (EC) No	D	
ECTION 12:	<u>Ecological i</u>	nforma	<u>ation</u>					
04 Taulalin								
Z.1. LOXICITY								
2.1. I OXICITY General info	rmation							
General info There are r mixture has	no data available o	following t	he summa	tion method		or water courses. gulation (EC) No 1		8
General info There are r mixture has and is not c	no data available o s been assessed f	following t erous for t	he summa	tion method				8
General info There are r mixture has and is not c	no data available of s been assessed f classified as dang ( <b>Components</b> )	following t erous for t	he summa	tion method				8
General info There are r mixture has and is not o Fish toxicity 1-Methoxy-2 Species	no data available of s been assessed f classified as dang ( <b>Components</b> )	following t erous for t golden o	he summa he environ rfe (Leucis	tion method ment.	of the CLP Rec			8
General info There are r mixture has and is not o Fish toxicity 1-Methoxy-2 Species LC0	no data available o s been assessed f classified as dang r (Components) -propanol	following t erous for t golden o	he summa he environ rfe (Leucis 4600	tion method ment. cus idus)				8
General info There are r mixture has and is not o Fish toxicity 1-Methoxy-2 Species LC0 Duration of	no data available o s been assessed f classified as dang (Components) -propanol exposure	following ti erous for t golden o > 4	he summa he environ rfe (Leucis 4600	tion method ment.	of the CLP Rec			8
General info There are r mixture has and is not o Fish toxicity 1-Methoxy-2 Species LC0 Duration of Daphnia tox	exposure icity (Components)	following ti erous for t golden o > 4	he summa he environ rfe (Leucis 4600	tion method ment. cus idus)	of the CLP Rec			8
General info There are r mixture has and is not o Fish toxicity 1-Methoxy-2 Species LC0 Duration of Daphnia tox 1-Methoxy-2	exposure icity (Components)	following ti erous for t golden o > 2 ents)	he summa he environ rfe (Leucis 4600 96	tion method ment. cus idus)	of the CLP Rec			8
General info There are r mixture has and is not o Fish toxicity 1-Methoxy-2 Species LC0 Duration of Daphnia tox	exposure icity (Components)	following ti erous for t golden o > 2 ents) Daphnia	he summa he environ rfe (Leucis 4600 96	tion method ment. cus idus)	of the CLP Rec			8
There are r mixture has and is not of Fish toxicity 1-Methoxy-2 Species LC0 Duration of Daphnia tox 1-Methoxy-2 Species EC50 Duration of	a data available d been assessed f classified as dang (Components) -propanol exposure icity (Compone -propanol	following ti erous for t golden o > 4 Sents) Daphnia	he summa he environ rfe (Leucis 4600 96 magna 23300	tion method ment. cus idus)	of the CLP Reo mg/l			8

MSDS for #82325 - MARABU S			2006	Page = 178
Safety data sheet in accordan	-		2006	
Trade name: Marabu Sketch M	1arker Heat 6t	lg. 974 Version: 1 / GB		Marabu Date revised: 17.02.2020
Substance number: 01480000	00102-974	Replaces Version:	- / GB	Print date: 27.02.20
1 Mothewy 2 proposel				
1-Methoxy-2-propanol Species	Desmo	odesmus		
EC50	>	1000 168 h	mg/l	
Duration of exposure Bacteria toxicity (Com	nonents)	168 h		
1-Methoxy-2-propanol	ponence)			
Species		ed sludge	<i>"</i>	
EC50	>	1000	mg/l	
12.2. Persistence and de	gradability	/		
General information No data available				
Biodegradability (Com	nonents)			
1-Methoxy-2-propanol	iponents)			
Value		90	%	
Duration of test evaluation	Poodil	28 d y biodegradable (acco	ording to OECD critor	ia)
Method	OECD			
12.3. Bioaccumulative po	otential			
General information				
There are no data avail	lable on the m	nixture itself.		
Partition coefficient: n				
Remarks	Not	t applicable		
12.4. Mobility in soil				
General information There are no data avail	lable on the m	nixture itself.		
12.5. Results of PBT and	l vPvB ass	essment		
General information There are no data avail	lable on the m	nixture itself.		
12.6. Other adverse effect	cts			
General information				
There are no data avail	lable on the m	nixture itself.		
SECTION 13: Disposa	l conside	erations		
13.1. Waste treatment me	ethods			
Disposal recommenda	ations for th	e product		
Do not allow to enter dr			ardanaa with ralayar	
Wastes and emptied co The European Waste C				
EWC waste code	08 03		taining dangerous su	
appropriate code shoul			e product code may	no longer apply and the
For further information	contact your I	ocal waste authority.		
Disposal recommenda	-			
Using information provi authority on the classifi			e should be obtained	from the relevant waste
Empty containers must	be scrapped	or reconditioned.		
Not emptied containers	s are hazardo	us waste (waste code	number 150110).	

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

Trade name: Marabu Sketch Marker Heat 6tlg. 974

Version: 1/GB

Replaces Version: - / GB

Date revised: 17.02.2020 Print date: 27.02.20

Page

Substance number: 0148000000102-974

# SECTION 14: Transport information

	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	Ш	II	11
Special provision	640D		
Limited Quantity	51		
Transport category	3		
14.5. Environmental hazards	-	no	_

## Information for all modes of transport

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) 88

## Other information

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

## 15.2. Chemical safety assessment

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

## SECTION 16: Other information

	<del>yrdance with regul</del>	lation (EC) No 1907/2006	
de name: Marabu Ske	tch Marker Heat 6tl	a. 974	
		Version: 1/GB	Date revised: 17.02.2020
bstance number: 0148	200000102-974	Replaces Version: - / GB	Print date: 27.02.20
	000000102-374		
Hazard statement	s listed in Chapt	er 3	
H225		flammable liquid and vapour.	1
H226		able liquid and vapour.	1
H319		s serious eye irritation.	1
H336		use drowsiness or dizziness.	
CLP categories lis	-		1
Eye Irrit. 2		tation, Category 2	1
Flam. Liq. 2		able liquid, Category 2	1
Flam. Liq. 3 STOT SE 3		able liquid, Category 3 c target organ toxicity - single exp	Cotocony 2
	•	starget organ toxicity - single exp	Sosure, Category 3
Supplemental info			
		e previous version of the safety da	
	•	sent state of knowledge. However,	
		operties and shall not establish a heet is based on the present state	
legislation.	Ins Salety Data S	leet is based on the prosont state	e of knowledge and current
	ce on health, safetv	and environmental aspects of the	ne product and should not be
		ical performance or suitability for	
The product shou	Id not be used for p	urposes other than those shown i	
		nandling instructions.	
			er's control, the user is responsible
		relevant legislation are complied	
		ety data sheet does not constitute	the user's own assessment of
WOIKPIACE IISKS, a	s required by other	health and safety legislation.	
			1
			1
			1

NSDS for #82325 - MARABU \$ <del>Safety data sheet in accorda</del>	SKETCH MAR	KER	Page => ~
ballety data sheet in accorda	nee with regu		
rade name: Marabu Sketch I	Marker Heat 6t	lg. 914	Marshi
		Version: 1 / GB	Date revised: 12.02.2020
Substance number: 0148000	000102-914	Replaces Version: - / GB	Print date: 27.02.20
ECTION 1: Identifica	ation of th	e substance/mixture and	d of the
ompany/undertaking			
1.1. Product identifier Marabu Sketch Marke		4	
1.2. Relevant identified	uses of the	substance or mixture and u	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	er		
Marabu GmbH & Co. Asperger Strasse 4 71732 Tamm	KG		
Germany			
Telephone no.	+49-7141/69	-	
Fax no. Information provided		product safety	
by / telephone		-	
E-mail address of person responsible for this SDS	PRSI@maral	bu.com	
1.4. Emergency telepho (+49) (0)621-60-4333			
	identified	41 a m	
ECTION 2: Hazards			
2.1. Classification of the			
Classification (Regula	• •	-	
Classification (Regula	tion (EC) No. 1 Flam. Liq. 2	272/2008) H225	
	Eye Irrit. 2	H319	
2.2. Label elements			
	, to regulati	on (EC) No 1272/2008	
	j to regulati	OII (EC) NO 1272/2008	
Hazard pictograms			
	>		
Signal word			
Danger Hazard statements			
Hazard statements H225	Highly flamm	able liquid and vapour.	
H319		us eye irritation.	
-			

Page 1(13)

SDS for #82325 - MARABU <del>afety data sheet in accord</del>	ance with regu	lation (EC)	<del>No 190</del>	7/2006			
ade name: Marabu Sketch	Marker Heat 6t	g. 914					$\mathbb{N}$
		Version:	1 / GE	3		Date revised:	Marabi 12.02.2020
ubstance number: 014800	0000102-914	Replace	s Versio	on: -/G	В	Print da	ate: 27.02.20
P101				e produc	t container	or label at hand.	
P102 P210	Keep out of re				ka anan fik	maa and athar ignit	ion
P210	sources. No s		t sunac	es, span	ks, open na	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 eas	sy to do	. Continu	ue rinsing.		ontaot
P501.9	Dispose of co	ontents / cor	ntainer a	as proble	matic wast	te.	
.3. Other hazards	ava ta ba monti	anad					
No special hazards h	ave to be menti	oneu.					
ECTION 3: Compos	sition/infor	mation o	<u>on in</u>	gredie	<u>nts</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				
	Eye Irrit. 2		H319				
Concentration limits	Regulation (EC) Eye Irrit. 2	No. 1272/2 ( H319		50 %			
1-Methoxy-2-propano	, I						
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						
.1. Description of first	aid measure	es					
General information							
In all cases of doubt,							y mouth
to an unconscious pe After inhalation		lous place	n recov	ery posi	lion and se		
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	rith soap	and water	or use recognised s	kin
After eye contact							
Remove contact lens							

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

Trade name: Marabu Sketch Marker Heat 6tlg. 914

Version: 1/GB

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ad

Substance number: 0148000000102-914

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

		$\frac{2}{2}$		Page
Safety data sheet in accordance wit	<del>in regulati</del>	011 (EC) NO 1907/2006		
Frade name: Marabu Sketch Marker	Heat 6tlg.	914		Marab
		Version: 1/GB		Date revised: 12.02.2020
Substance number: 0148000000102	-914	Replaces Version: - / GE	3	Print date: 27.02.20
be prohibited in application ar container is not a pressure ve Comply with the health and s	rising from rea. For pe essel. Alwa afety at wo	the application of this mix rsonal protection see Sec ys keep in containers of s rk laws. Do not allow to e	ture. Smo tion 8. Ne ame mate	oking, eating and drinking shall ever use pressure to empty: erial as the original one.
Advice on protection agains				
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 incompatil	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 stror	ngly acid r	materials.
Further information on stora	age cond	itions		
Observe label precautions. Si sources of heat and direct sur	nlight. Kee			
		ss. Containers which are		nust be carefully resealed and
No smoking. Prevent unauthon kept upright to prevent leakage		ss. Containers which are		
kept upright to prevent leakag		ss. Containers which are		
kept upright to prevent leakag		ss. Containers which are		
kept upright to prevent leakag 7.3. Specific end use(s) Paint	je.		opened n	
kept upright to prevent leakag 7.3. Specific end use(s) Paint SECTION 8: Exposure con	je.		opened n	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters	je.		opened n	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values	je.		opened n	
kept upright to prevent leakage 7.3. Specific end use(s) Paint SECTION 8: Exposure con 8.1. Control parameters Exposure limit values Ethanol	<sup>ge.</sup> htrols/p		opened n	
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	je.		opened n	
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. <b>htrols/p</b> EH40		opened n	
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. <b>ntrols/p</b> EH40 WEL	ersonal protectio	opened n	nust be carefully resealed and
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. <b>ntrols/p</b> EH40 WEL 1920	ersonal protectio	opened n	nust be carefully resealed and
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. <b>htrols/p</b> EH40 WEL 1920 EH40	ersonal protectio	opened n	nust be carefully resealed and
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	<mark>ersonal protectio</mark> mg/m³	opened n • <b>n</b> 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	opened n • <b>n</b> 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	opened n • <b>n</b> 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 375 560 on: Sk; S	ersonal protectio mg/m³ mg/m³ status: 2011	opened n • <b>n</b> 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 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	opened n • <b>n</b> 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 Skin resorption / sensibilisatio Derived No/Minimal Effect L Ethanol	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S <b>.evels (D</b>	ersonal protectio mg/m³ mg/m³ itatus: 2011 NEL/DMEL)	opened n • <b>n</b> 1000 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 / sensibilisatio 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/m <sup>3</sup> mg/m <sup>3</sup> status: 2011 NEL/DMEL) d No Effect Level (DNEL)	opened n • <b>n</b> 1000 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 / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S <b>.evels (D</b>	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r	opened n • <b>n</b> 1000 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 / sensibilisation Derived No/Minimal Effect L Ethanol Type of value Reference group Duration of exposure	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S <b>.evels (Di</b> Derive Worke	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm	opened n • <b>n</b> 1000 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	e. EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S evels (Di Derive Worke Long to inhalat	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm	opened n • <b>n</b> 1000 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	e. EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S evels (Di Derive Worke Long to inhalat	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm ive	opened n n 1000 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 Derive Uorke Long te inhalat Systen	ersonal protectio mg/m³ mg/m³ status: 2011 NEL/DMEL) d No Effect Level (DNEL) r erm ive nic effects 950	opened n n 1000 150	ppm(V) ppm(V) 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 / 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 Uorke Long te inhalat Systen	ersonal protectio mg/m <sup>3</sup> mg/m <sup>3</sup> itatus: 2011 NEL/DMEL) d No Effect Level (DNEL) r prm ive nic effects 950 d No Effect Level (DNEL)	opened n n 1000 150	ppm(V) ppm(V) ppm(V)

Safety data sheet in accordance v rade name: Marabu Sketch Marke		
rade name. Marabu Sketch Marke	Version: 1/GB	Marat Date revised: 12.02.2020
Substance number: 014800000010		
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1900	mg/m³
Type of value	Derived No Effect Level (DNI	EL)
Reference group	Worker	
Duration of exposure Route of exposure	Long term dermal	
Mode of action	Systemic effects	
Concentration	343	mg/kg/d
	Derived No Effect Level (DNI	
Type of value Reference group	Derived No Effect Level (DNI 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 (DNI	EL)
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 (DNI	EL)
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure Mode of action	dermal Systemic effects	
Concentration	206	mg/kg/d
Type of value	Derived No Effect Level (DNI	=1)
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 (DNI	EL)
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure Mode of action	inhalative Local effects	
Concentration	553,5	mg/m³
Type of value	Derived No Effect Level (DNI	=1)
Reference group	Worker	,
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	50,6	mg/person/
		d
Type of value	Derived No Effect Level (DN	EL)

Trada nama: Marahu Skatah Marka		~ 014	
Frade name: Marabu Sketch Marke	r Heat olig	-	
		Version: 1/GB	Date revised: 12.02.2020
Substance number: 014800000010	02-914	Replaces Version: - / GB	Print date: 27.02.20
Reference group	Wor	ker	
Duration of exposure	Long	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	Long	g term	
Route of exposure	dern		
Mode of action	Syst	emic effects	
Concentration		18,1	mg/kg
Type of value	Deri	ved No Effect Level (DNEL)	
Reference group	Gen	eral Population	
Duration of exposure		g term	
Route of exposure	inha	lative	
Mode of action	Syst	emic effects	
Concentration	,	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	- 9 - 1	3,3	mg/kg/d
Predicted No Effect Conce	entration	(PNEC)	
Ethanol	PNE		
Type of value Type		hwater	
Concentration	1163	0,96	mg/l
Concentration		0,30	Шġл
Type of value	PNE	-	
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	
Туре	Sew	age treatment plant (STP)	
Concentration		580	mg/l
Type of value	PNE	C	
Type		hwater sediment	
Concentration		3,6	mg/kg
Type of value	PNE	C	
Туре		ne sediment	
Concentration	inar	2,9	mg/kg
Type of value			
Type of value	PNE Soil		
Type of value Type Concentration	Soil	0,63	mg/kg

Page 6(13)

foty data shoot in accordance	TCH MARKER with regulation (EC) No 1907/2006	Page
ide name: Marabu Sketch Mark	,	N
	Version: 1/GB	Date revised: 12.02.202
bstance number: 0148000000		
<b>1-Methoxy-2-propanol</b> Type of value	PNEC	
Type	Freshwater	
Concentration	10	mg/l
Type of value	PNEC	
Туре	Water	
Concentration	41,6	mg/kg
Type of value	PNEC	
Туре	Sediment	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type	Marine sediment	malka
Concentration	4,17	mg/kg
Type of value	PNEC	
Type	Soil	malka
Concentration	2,47	mg/kg
Type of value	PNEC	
Type Concentration	Sewage treatment plant (STP) 100	mg/l
	ion. Where reasonably practicable this bod general extraction. If these are not	
•	apour below the OEL, suitable respirate	ory protection must be worn.
Respiratory protection	concentrations, above the evenesure lim	it they must use energy ists contified
If workers are expected to		
If workers are exposed to respirators. Full mask, filte		in they must use appropriate, certified
respirators. Full mask, filte Hand protection	er A	
respirators. Full mask, filte Hand protection There is no one glove ma	er A terial or combination of materials that w	
respirators. Full mask, filte Hand protection There is no one glove mat individual or combination of	er A terial or combination of materials that w of chemicals.	vill give unlimited resistance to any
respirators. Full mask, filte Hand protection There is no one glove mat individual or combination of	er A terial or combination of materials that w	vill give unlimited resistance to any
respirators. Full mask, filte Hand protection There is no one glove mat individual or combination For prolonged or repeated Material thickness Breakthrough time	er A terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min	vill give unlimited resistance to any till undergloves are required.
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 mating	er A terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of	rill give unlimited resistance to any tile undergloves are required.
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 muthe instructions and information replacement must be follo	terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of mation provided by the glove manufactor owed.	vill give unlimited resistance to any tile undergloves are required. the product. urer on use, storage, maintenance and
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 mut The instructions and information replacement must be follo Gloves should be replaced	terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of mation provided by the glove manufacture wed. d regularly and if there is any sign of da	vill give unlimited resistance to any tile undergloves are required. the product. urer on use, storage, maintenance and amage to the glove material.
respirators. Full mask, filte Hand protection There is no one glove man individual or combination of For prolonged or repeated Material thickness Breakthrough time The breakthrough time mu The instructions and inform replacement must be follo Gloves should be replaced Always ensure that gloves	terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of mation provided by the glove manufacture wed. d regularly and if there is any sign of dates are free from defects and that they are	vill give unlimited resistance to any tile undergloves are required. the product. urer on use, storage, maintenance and amage to the glove material. e stored and used correctly.
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 mu The instructions and informed replacement must be follo Gloves should be replaced Always ensure that gloves	terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of mation provided by the glove manufacture wed. d regularly and if there is any sign of dates are free from defects and that they are	vill give unlimited resistance to any tile undergloves are required. the product. urer on use, storage, maintenance and amage to the glove material.
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 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 t	terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of mation provided by the glove manufact wed. d regularly and if there is any sign of da s are free from defects and that they are tiveness of the glove may be reduced b	vill give unlimited resistance to any tile undergloves are required. the product. urer on use, storage, maintenance and amage to the glove material. e stored and used correctly. by physical/ chemical damage and poor
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 mon 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	terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of mation provided by the glove manufact wed. d regularly and if there is any sign of da s are free from defects and that they are tiveness of the glove may be reduced b	vill give unlimited resistance to any tile undergloves are required. the product. urer on use, storage, maintenance and amage to the glove material. e stored and used correctly. by physical/ chemical damage and poor
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 monthe 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	terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of mation provided by the glove manufaction wed. d regularly and if there is any sign of dat s are free from defects and that they are tiveness of the glove may be reduced b to protect the exposed areas of the skin red.	vill give unlimited resistance to any tile undergloves are required. the product. urer on use, storage, maintenance and amage to the glove material. e stored and used correctly. by physical/ chemical damage and poor a, they should however not be applied
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 monthe 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	terial or combination of materials that w of chemicals. d handling nitrile rubber gloves with text > 0,5 mm < 30 min ust be greater than the end use time of mation provided by the glove manufact wed. d regularly and if there is any sign of da s are free from defects and that they are tiveness of the glove may be reduced b	vill give unlimited resistance to any tile undergloves are required. the product. urer on use, storage, maintenance and amage to the glove material. e stored and used correctly. by physical/ chemical damage and poor a, they should however not be applied

# **SECTION 9: Physical and chemical properties**

Item Numbers: 82325-1003

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<ul> <li>914</li> <li>Version: 1/GB</li> <li>Replaces Version: -/GE</li> <li>and chemical properties</li> <li>and chemical properties</li> <li>ant-like</li> <li>lata available</li> <li>applicable</li> <li>determined</li> <li>determined</li> <li>ge</li> <li>78</li> <li>12</li> <li>determined</li> <li>sive limits</li> <li>1,5</li> </ul>		Date revised: Print da	Marab 12.02.2020 ate: 27.02.20
Version: 1 / GB Replaces Version: - / GB and chemical propertie d ent-like lata available applicable determined determined ge . 78 12 letermined sive limits . 1,5	<b>°</b> C °C °C		
nd chemical propertie d ent-like lata available applicable letermined determined ge . 78 12 letermined sive limits . 1,5	<b>°</b> C °C °C	Print da	ate: 27.02.20
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Satoty data shoot in accordance wi		KER <del>lation (EC) No 1907/2006</del>	Page #1
callety data shoethir accordance wi			
Trade name: Marabu Sketch Marker	Heat 6t	lg. 914	March
		Version: 1 / GB	Date revised: 12.02.2020
Substance number: 0148000000102	-914	Replaces Version: - / GB	Print date: 27.02.20
Other information			
	re appro	oximate values and refer to the us	sed safety relevant component(s).
SECTION 10: Stability and	l reac	tivity	
<b>10.1. Reactivity</b> No hazardous reactions wher	n stored	l and handled according to prescr	ribed instructions.
10.2. Chemical stability		and handling conditions (see sec	
	-		
<b>10.3. Possibility of hazardous</b> Keep away from oxidising age exothermic reactions.		rongly alkaline and strongly acid r	materials in order to avoid
10.4. Conditions to avoid			
	ratures	may produce hazardous decomp	position products.
10.5. Incompatible materials No hazardous reactions when	n stored	I and handled according to prescr	ribed instructions.
10.6. Hazardous decompositi			
See chapter 5.2 (Firefighting	measur	es - Special hazards arising from	the substance or mixture).
SECTION 11: Toxicologica	al info	ormation	
11.1. Information on toxicolog			
11.1. Information on toxicolog Acute oral toxicity	gical e	effects	
11.1. Information on toxicolog Acute oral toxicity Remarks	<b>gical e</b> Based		on criteria are not met.
11.1. Information on toxicolog Acute oral toxicity	<b>gical e</b> Based	effects	on criteria are not met.
11.1. Information on toxicolog Acute oral toxicity Remarks	<b>gical e</b> Based	effects	on criteria are not met.
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compor 1-Methoxy-2-propanol Species	<b>gical e</b> Based	on available data, the classification	
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compor 1-Methoxy-2-propanol	gical e Based nents)	on available data, the classification	on criteria are not met. ng/kg
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compor 1-Methoxy-2-propanol Species	gical e Based nents)	on available data, the classification	
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compor 1-Methoxy-2-propanol Species LD50	gical e Based nents) rat	on available data, the classification	ng/kg
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compor 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity	gical e Based nents) rat Based	effects on available data, the classification 5200 n on available data, the classification	ng/kg
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compor 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com	gical e Based nents) rat Based	effects on available data, the classification 5200 n on available data, the classification	ng/kg
11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compor 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks	gical e Based nents) rat Based	effects on available data, the classification 5200 n on available data, the classification	ng/kg
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11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Compor 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Com 1-Methoxy-2-propanol Species LD50	gical e Based nents) rat Based ponen rabbit	effects on available data, the classification 5200 n on available data, the classification <b>ts)</b>	ng/kg on criteria are not met. ng/kg
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11.1. Information on toxicolog Acute oral toxicity Remarks Acute oral toxicity (Comport 1-Methoxy-2-propanol Species LD50 Acute dermal toxicity Remarks Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks	gical e Based nents) rat Based ponen rabbit Based	effects on available data, the classification 5200 n on available data, the classification ts) 14000 n	ng/kg on criteria are not met. ng/kg on criteria are not met.
<ul> <li>11.1. Information on toxicolog</li> <li>Acute oral toxicity         <ul> <li>Remarks</li> </ul> </li> <li>Acute oral toxicity (Comport 1-Methoxy-2-propanol Species             <ul> <li>LD50</li> <li>Acute dermal toxicity</li> <li>Remarks</li> </ul> </li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species             <ul> <li>LD50</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> </ul> </li> </ul>	gical e Based nents) rat Based ponen rabbit Based Based	effects on available data, the classification 5200 n on available data, the classification ts) 14000 n on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met.
<ul> <li>11.1. Information on toxicolog</li> <li>Acute oral toxicity         <ul> <li>Remarks</li> </ul> </li> <li>Acute oral toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity             <ul> <li>Remarks</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> <li>Serious eye damage/irritation</li> </ul> </li> </ul>	gical e Based nents) rat Based ponen rabbit Based Based on	effects on available data, the classification 5200 n on available data, the classification ts) 14000 n on available data, the classification	ng/kg on criteria are not met. ng/kg on criteria are not met.
<ul> <li>11.1. Information on toxicolog</li> <li>Acute oral toxicity         <ul> <li>Remarks</li> </ul> </li> <li>Acute oral toxicity (Comport 1-Methoxy-2-propanol Species             <ul> <li>LD50</li> <li>Acute dermal toxicity</li> <li>Remarks</li> </ul> </li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species             <ul> <li>LD50</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity Remarks</li> <li>Skin corrosion/irritation Remarks</li> </ul> </li> </ul>	gical e Based nents) rat Based ponen rabbit Based based on irritant	effects on available data, the classification 5200 n on available data, the classification ts) 14000 n on available data, the classification	ng/kg on criteria are not met. ng/kg on 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 Acute dermal toxicity Remarks Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritation Remarks Sensitization	gical e Based hents) rat Based ponen rabbit Based based on 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.
<ul> <li>11.1. Information on toxicolog</li> <li>Acute oral toxicity <ul> <li>Remarks</li> </ul> </li> <li>Acute oral toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity <ul> <li>Remarks</li> </ul> </li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity <ul> <li>Remarks</li> </ul> </li> <li>Skin corrosion/irritation <ul> <li>Remarks</li> <li>Serious eye damage/irritation</li> <li>Remarks</li> </ul> </li> <li>Sensitization <ul> <li>Remarks</li> </ul> </li> </ul>	gical e Based hents) rat Based ponen rabbit Based based on 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	ng/kg on criteria are not met. ng/kg on criteria are not met. on criteria are not met.
<ul> <li>11.1. Information on toxicolog</li> <li>Acute oral toxicity <ul> <li>Remarks</li> </ul> </li> <li>Acute oral toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity <ul> <li>Remarks</li> </ul> </li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity <ul> <li>Remarks</li> </ul> </li> <li>Skin corrosion/irritation <ul> <li>Remarks</li> </ul> </li> <li>Serious eye damage/irritation <ul> <li>Remarks</li> </ul> </li> <li>Sensitization <ul> <li>Remarks</li> </ul> </li> <li>Mutagenicity</li> </ul>	gical e Based hents) rat Based ponen rabbit Based bn irritant The cla Based	effects on available data, the classification 5200 n on available data, the classification ts) 14000 n 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.
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<ul> <li>11.1. Information on toxicolog</li> <li>Acute oral toxicity <ul> <li>Remarks</li> </ul> </li> <li>Acute oral toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity <ul> <li>Remarks</li> </ul> </li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute dermal toxicity (Comport 1-Methoxy-2-propanol Species LD50</li> <li>Acute inhalational toxicity <ul> <li>Remarks</li> </ul> </li> <li>Skin corrosion/irritation <ul> <li>Remarks</li> </ul> </li> <li>Serious eye damage/irritation <ul> <li>Remarks</li> </ul> </li> <li>Sensitization <ul> <li>Remarks</li> </ul> </li> <li>Mutagenicity</li> </ul>	gical e Based hents) rat Based ponen rabbit Based bn irritant The cla Based Based	effects on available data, the classification 5200 n on available data, the classification ts) 14000 n 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. on criteria are not met.

MSDS for #82325 - MARABU SKET	CH MAR	KFR			Page 🚔 🖬 T
Safety data sheet in accordance w	rith regu	lation (EC	<del>) No 1907/2</del>	006	
Trada as a Manshu Chatak Marka		- 011			
Trade name: Marabu Sketch Marke	r Heat 6t	0	: 1/GB		Marabu Doto rovicod: 12.02.2020
Substance number: 014800000010	0.014		es Version:		Date revised: 12.02.2020 Print date: 27.02.20
Substance number: 01480000010	02-914	Replace	es version.	-7 GB	1 mill date. 27.02.20
Carcinogenicity					
Remarks	Based	on availab	le data, the	classification cri	teria are not met.
Specific Target Organ Tox	icity (S	ΓΟΤ)			
Single exposure		-			
Remarks	Based	on availab	le data, the	classification cri	teria are not met.
Repeated exposure					
Remarks	Based	on availab	le data, the	classification cri	teria are not met.
Aspiration hazard					
Based on available data, the	e classific	cation criter	ria are not m	et.	
Experience in practice Exposure to component solv			·	and the state of t	
limit may result in adverse h and adverse effects on kidn dizziness, fatigue, muscular Solvents may cause some of contact with the mixture may dermatitis and absorption th	ealth effe ey, liver a weaknes of the abo y cause r rough the n may ca iate effec	ects such a and central ass, drowsin ove effects removal of e skin. The suse nause ats and also	as mucous m nervous systeess and in e by absorption natural fat fr liquid splas a, diarrhoea chronic effe	embrane and restern. Symptoms extreme cases, I on through the s om the skin rest hed in the eyes and vomiting. T ects of compone	espiratory system irritation s and signs include headache, loss 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	on the m	nixture itsel	f.		
The mixture has been asses 1272/2008 and classified fo					Regulation (EC) No
SECTION 12: Ecological 12.1. Toxicity	inform	<u>nation</u>			
General information					
There are no data available	following	the summ	ation metho		s or water courses.The egulation (EC) No 1272/2008
Fish toxicity (Components	5)				
1-Methoxy-2-propanol					
Species	-	•	iscus idus)		
LC0 Duration of exposure	>	4600 96	h	mg/l	
Daphnia toxicity (Compon	ents)				
1-Methoxy-2-propanol					
Species	Daphn	ia magna			
EC50		23300	6	mg/l	
Duration of exposure	te)	48	h		
Algae toxicity (Component	13)				
1-Methoxy-2-propanol Species	Desmo	odesmus			
EC50	>	1000		mg/l	
Duration of exposure		168	h		
Bacteria toxicity (Compon	ents)				
1-Methoxy-2-propanol Species	activat	ed sludge			
L					

MSDS for #82325 - N	ARABU SKETC	H MAR	KER		Page 😤 🗧
Safety data sheet in	accordance wi	th regu	Hation (EC) No 1907/2	2006	
Trade name: Marabu	u Sketch Marker	Heat 6t	llg. 914		
			Version: 1/GB		Date revised: 12.02.2020
Substance number:	0148000000102	-914	Replaces Version:	- / GB	Print date: 27.02.20
EC50		>	1000	mg/l	
12.2. Persistence	e and degrad	ability	/		
<b>General infor</b> No data avai					
Biodegradabi	ility (Compone	nts)			
1-Methoxy-2-j	propanol				
Value Duration of t	oct		90 28 d	%	
evaluation	.631	Readil	y biodegradable (acco	rding to OECD cri	teria)
Method		OECD	301 F	C	, ,
12.3. Bioaccumu	-	ial			
General infor					
	o data available o				
Remarks	fficient: n-octa		<b>ater</b> t applicable		
	soil				
12.4. Mobility in General infor					
••••••	o data available c	n the n	nixture itself		
12.5. Results of					
General infor		D a55	essment		
	o data available c	on the m	nixture itself.		
12.6. Other adve	orse effects				
General infor					
	o data available c	on the m	nixture itself.		
SECTION 13: D	Disposal co	nside	<u>erations</u>		
13.1. Waste treat	tment method	ds			
Disposal reco	ommendations	for th	e product		
	to enter drains of			ordance with roles	ant national regulation.
			ssification of this produ		
EWC waste	code	08 03	12* waste ink cont	taining dangerous	substances
	ct is mixed with o code should be a			e product code ma	ay no longer apply and the
		0	local waste authority.		
Disposal reco	ommendations	for pa	ackaging		
0			2	e should be obtain	ed from the relevant waste
	the classification		oty containers. or reconditioned.		
			us waste (waste code	number 150110).	
	<u>-</u>			,	
SECTION 14: T	ransport in	form	<u>ation</u>		

	Version:		Date revised: 12.02.202
Substance number: 014800	00000102-914 Replaces	Version: -/GB	Print date: 27.02.2
	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	
	-		_

## Information for all modes of transport

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).

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

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	MARABU SKETCH					Page 🚝 🗖
Safety data sheet	in accordance with	h regulatie	<del>on (EC) No 1907/</del>	2006		
rade name: Mara	bu Sketch Marker ⊢	0				
Substance number:	: 0148000000102-		/ersion: 1 / GB Replaces Version:	- / GB		d: 12.02.2020 date: 27.02.20
H225		Highly flam	mable liquid and	vapour.		
H226			liquid and vapou			
H319			rious eye irritation			
H336		5	drowsiness or dia	zziness.		
	ries listed in Cha	-				
Eye Irrit. 2			n, Category 2	•		
Flam. Liq. : Flam. Liq. :			liquid, Category			
STOT SE 3					posure, Category 3	
	tal information		3	3 - 1	, , <b>.</b> . , .	
		with the pre	vious version of t	he safetv da	ata sheet are marked w	ith: ***
					r, it should not constitute	
guarantee	for any specific proc	duct propei	ties and shall not	establish a	legally valid relationshi	р.
The inform legislation.		Data Sheet	t is based on the	present stat	te of knowledge and cur	rent
					ne product and should r	ot be
					particular applications.	•
	olier and obtaining w			iose snown	in Section 1 without firs	treferring
				the supplie	er's control, the user is r	esponsible
	g that the requireme					
					e the user's own assess	ment of
workplace	risks, as required by	y other hea	Ith and safety leg	islation.		
			Page 13(13)			
mbers: 82325-1003			1 age 13(13)			Page 65

/ISDS for #82325 - MARABU	SKETCH MARI	KER <del>lation (EC) No 1907/2006</del>	Page ** ~
Saloty auto oncer in accorda			
rade name: Marabu Sketch I	Marker Heat 6t	lg. 919	Marchi
		Version: 1 / GB	Date revised: 12.02.2020
Substance number: 0148000	000102-919	Replaces Version: - / GB	Print date: 27.02.20
ECTION 1: Identifica	ation of th	e substance/mixture and	d of the
ompany/undertaking			
1.1. Product identifier Marabu Sketch Marke		9	
1.2. Relevant identified	uses of the	substance or mixture and u	ses advised against
Use of the substance/pr Paint			-
Identified Uses			
SU21	Consumer us	ses: Private households (= general p	oublic = consumers)
PC9a		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 <sup>2</sup>	product safety	
by / telephone	2 op 3 on p		
E-mail address of person responsible for this SDS	PRSI@maral	ou.com	
1.4. Emergency telepho (+49) (0)621-60-43333	ne number 3		
ECTION 2: Hazards	Identificat	tion	
2.1. Classification of the	e substance	or mixture	
Classification (Regula		-	
Classification (Regula		272/2008) H225	
	Flam. Liq. 2 Eye Irrit. 2	H319	
2.2. Label elements			
	, to regulati	on (EC) No 1272/2008	
	j to regulation	011 (LC) NO 1272/2008	
Hazard pictograms			
	>		
Signal word			
Danger			
•• • • • •			
Hazard statements			
Hazard statements H225 H319		able liquid and vapour. us eye irritation.	

Page 1(13)

SDS for #82325 - MARABU afety data sheet in accorda	SKETCH MARK ance with regul	(ER <del>ation (EC)</del>	<del>No 190</del>	7/2006			Page 🖛
ade name: Marabu Sketch		y. 919 Version:	1/6	2		Date revised:	
	0000100 010	Replace:			Р		ate: 27.02.2020
ubstance number: 0148000	000102-919	Replace	sversio	n: -/G	D	Flint da	ale. 27.02.20
P101				e produc	t container	or label at hand.	
P102 P210	Keep out of re			oo ooorl	a opop fla	ames and other igniti	ion
FZIU	sources. No s		i sunat	es, span	s, open na	anes and other ignit	
P264.1	Wash hands t	horoughly a	after ha	ndling.			
P280 P305+P351+P338						otection / face protection / face protection / face protection	
F305+F351+F356	lenses, if pres					minutes. Remove co	oniaci
P501.9	Dispose of co					e.	
3. Other hazards							
No special hazards ha	ave to be mention	oned.					
ECTION 3: Compos	ition/inforr	mation of	on ind	aredie	nts		
2. Mixtures							
Hazardous ingredien	ts						
Ethanol							
CAS No.	64-17-5						
EINECS no.	200-578-6						
Registration no.	01-21194576						
Concentration	>=	50	<	100	%		
Classification (Regula		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-propanol	I						
CAS No.	107-98-2						
EINECS no.	203-539-1						
Registration no. Concentration	01-21194574:	35-35 10	<	20	%		
	-	-		20	70		
Classification (Regula		272/2008)					
	STOT SE 3 Flam. Liq. 3		H336 H226				
			11220				
ECTION 4: First aid							
1. Description of first	aid measure	s					
General information							
In all cases of doubt,							y mouth
to an unconscious ne			miccov	cry posit			
to an unconscious pe				aathing i	o irroqulor	or stopped administ	ter
to an unconscious pe After inhalation Remove to fresh air, I artificial respiration.	keep patient wai	rm and at re	est. If br	eatning i	sinegulai	or stopped, adminis	
After inhalation Remove to fresh air, I	keep patient wai	rm and at re	est. If br	eatning i	sinegular	or stopped, administ	
After inhalation Remove to fresh air, I artificial respiration.	ed clothing. Wasl	h skin thoro		-			
After inhalation Remove to fresh air, I artificial respiration. After skin contact Remove contaminate	ed clothing. Wasl	h skin thoro		-			

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

Trade name: Marabu Sketch Marker Heat 6tlg. 919

Version: 1/GB

Substance number: 0148000000102-919

Date revised: 12.02.2020 Print date: 27.02.20

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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; Nitrogen oxides (NOx); Sulphur oxides

## 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

Sofaty data chaot in accordance wi	H MARKE	{ (EC) No 1007/2006		Page
Safety data sheet in accordance wi	<del>in regulati</del>	011 (EC) NO 1907/2006		
Trade name: Marabu Sketch Marker	Heat 6tlg. 9	919		March
	,	Version: 1 / GB		Date revised: 12.02.2020
Substance number: 0148000000102	2-919	Replaces Version: - / G	В	Print date: 27.02.20
be prohibited in application and container is not a pressure ver Comply with the health and s	rising from rea. For pe essel. Alwa afety at wo	the application of this mix rsonal protection see Sec ys keep in containers of s rk laws. Do not allow to e	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				
Vapours are heavier than air air.	and may sp	pread along floors. Vapou	urs may fo	rm explosive mixtures with
Classification of fires / temp	perature d	lass / 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	vessels		
Electrical installations/working standards. Storage rooms in accordance with national regu	which filling			
Hints on storage assembly				
Store away from oxidising ag	ents, from s	strongly alkaline and stro	ngly acid r	naterials.
Further information on stor	age cond	itions		
Observe label precautions. S	tore betwee	en 15 and 30 °C in a dry,	well venti	lated place away from
No smoking. Prevent unautho	orised acce	o container tightly closed	. Keep aw	ay from sources of ignition. hust be carefully resealed and
	orised acce	o container tightly closed	. Keep aw	ay from sources of ignition.
No smoking. Prevent unauthon kept upright to prevent leakage	orised acce	o container tightly closed	. Keep aw	ay from sources of ignition.
No smoking. Prevent unauthon kept upright to prevent leakage	orised acce	o container tightly closed	. Keep aw	ay from sources of ignition.
No smoking. Prevent unautho kept upright to prevent leakag <b>7.3. Specific end use(s)</b> Paint	prised acce ge.	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition.
No smoking. Prevent unautho kept upright to prevent leakag 7.3. Specific end use(s) Paint SECTION 8: Exposure cor	prised acce ge.	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition.
No smoking. Prevent unautho kept upright to prevent leakag 7.3. Specific end use(s) Paint SECTION 8: Exposure cor 8.1. Control parameters	prised acce ge.	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition.
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	prised acce ge.	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition.
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	prised acce ge. <u>ntrols/p</u> e	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition.
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 acce ge.	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition.
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	prised acce ge. <u>ntrols/po</u> EH40	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition.
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/po EH40 WEL	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition. hust be carefully resealed and
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	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition. hust be carefully resealed and
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	o container tightly closed ss. Containers which are	. Keep aw opened n	ay from sources of ignition. hust be carefully resealed and
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	o container tightly closed ss. Containers which are ersonal protectio mg/m <sup>3</sup>	. Keep aw opened n	ay from sources of ignition. hust be carefully resealed and ppm(V)
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	mg/m <sup>3</sup>	Neep aw opened n 2 <b>n</b> 1000	ay from sources of ignition. hust be carefully resealed and ppm(V) ppm(V)
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	o container tightly closed ss. Containers which are ersonal protectio mg/m <sup>3</sup>	. Keep aw opened n	ay from sources of ignition. hust be carefully resealed and ppm(V)
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 on: Sk; S	mg/m <sup>3</sup> mg/m <sup>3</sup> tatus: 2011	Neep aw opened n 2 <b>n</b> 1000	ay from sources of ignition. hust be carefully resealed and ppm(V) ppm(V)
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; S	mg/m <sup>3</sup> mg/m <sup>3</sup> tatus: 2011	Neep aw opened n 2 <b>n</b> 1000	ay from sources of ignition. hust be carefully resealed and ppm(V) ppm(V)
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 Line Ethanol	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S Levels (DM	mg/m <sup>3</sup> mg/m <sup>3</sup> tatus: 2011	. Keep aw opened n 200 1000 150	ay from sources of ignition. hust be carefully resealed and ppm(V) ppm(V)
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; S Levels (DM	mg/m <sup>3</sup> mg/m <sup>3</sup> tatus: 2011 <b>NEL/DMEL)</b>	. Keep aw opened n 200 1000 150	ay from sources of ignition. hust be carefully resealed and ppm(V) ppm(V)
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	EH40 WEL 1920 EH40 WEL 375 560 on: Sk; S Levels (DR Derived	mg/m <sup>3</sup> mg/m <sup>3</sup> tatus: 2011 <b>NEL/DMEL)</b>	. Keep aw opened n 200 1000 150	ay from sources of ignition. hust be carefully resealed and ppm(V) ppm(V)
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 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 <b>.evels (D</b> Derived Worket Long te inhalati	mg/m <sup>3</sup> mg/m <sup>3</sup> mg/m <sup>3</sup> tatus: 2011 <b>NEL/DMEL)</b>	. Keep aw opened n 200 1000 150	ay from sources of ignition. hust be carefully resealed and ppm(V) ppm(V)
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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 / 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 1920 EH40 WEL 375 560 on: Sk; S <b>Jevels (Df</b> Derived Korket Long te inhalati System	mg/m <sup>3</sup> mg/m <sup>3</sup> mg/m <sup>3</sup> tatus: 2011 <b>NEL/DMEL)</b> d No Effect Level (DNEL) erm ve nic effects	. Keep aw opened n 200 1000 150	ay from sources of ignition. hust be carefully resealed and ppm(V) ppm(V) ppm(V)

rade name: Marabu Sketch Marker	Heat 6th	n. 919	
	. roat on,	Version: 1/GB	Date revised: 12.02.202
Substance number: 0148000000102	2-919	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 Mode of action	dern	emic effects	
Concentration	Syst	343	mg/kg/d
Concentration		545	mg/kg/u
Type of value		ved No Effect Level (DNEL)	
Reference group		sumer	
Duration of exposure		g term	
Route of exposure Mode of action		lative emic effects	
Concentration	Syst	114	mg/m³
		No Effect Level (DNEL)	-
Type of value Reference group		ved No Effect Level (DNEL) sumer	
Duration of exposure		rt term	
Route of exposure		lative	
Mode of action		al effects	
Concentration	2000	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		
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	malkald
Concentration		87	mg/kg/d
1-Methoxy-2-propanol			
Type of value		ved No Effect Level (DNEL)	
Reference group	Wor		
Duration of exposure	Acu		
Route of exposure		lative	
Mode of action Concentration	LOC	al effects 553,5	mg/m³
Tomorel	<b>.</b> .		-
Type of value		ved No Effect Level (DNEL)	
Reference group Duration of exposure	Wor	rer g term	
Route of exposure	dern		
Mode of action		emic effects	
Concentration	0,0	50,6	mg/person/
			d
Type of value	Dari	ved No Effect Level (DNEL)	

Frede nomer Marshy Olistah Marila	r Lloot Stig. 040	
Trade name: Marabu Sketch Marke	-	Marab
	Version: 1/GB	Date revised: 12.02.2020
Substance number: 014800000010	2-919 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	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	43,9	mg/m³
	Derived No Effect Level (DNEL)	
Type of value		
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	<i>n i i i</i>
Concentration	3,3	mg/kg/d
Predicted No Effect Conce	entration (PNEC)	
Ethanol		
Type of value	PNEC	
	Freshwater	
Concentration	0,96	mg/l
Concentration	0,00	mg/i
Type of value	PNEC	
Туре	Saltwater	
Concentration	0,79	mg/l
Type of value	PNEC	
Туре	Water (intermittent release)	
		mg/l
	2.73	
Concentration	2,75	
Concentration Type of value	PNEC	mg,
Concentration Type of value Type		ing.
Concentration Type of value	PNEC	mg/l
Concentration Type of value Type Concentration	PNEC Sewage treatment plant (STP) 580	
Concentration Type of value Type Concentration Type of value	PNEC Sewage treatment plant (STP) 580 PNEC	
Concentration Type of value Type Concentration Type of value Type	PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment	mg/l
Concentration Type of value Type Concentration Type of value	PNEC Sewage treatment plant (STP) 580 PNEC	
Concentration Type of value Type Concentration Type of value Type	PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC	mg/l
Concentration Type of value Type Concentration Type of value Type Concentration	PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6	mg/l
Concentration Type of value Type Concentration Type of value Type Concentration Type of value	PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC	mg/l
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration	PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC Marine sediment 2,9	mg/l mg/kg
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration Type of value	PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC Marine sediment 2,9 PNEC	mg/l mg/kg
Concentration Type of value Type Concentration Type of value Type Concentration Type of value Type Concentration	PNEC Sewage treatment plant (STP) 580 PNEC Freshwater sediment 3,6 PNEC Marine sediment 2,9	mg/l mg/kg

SDS for #82325 - MARABU SKET	CH MARKE	R tion (EC) No 1907/2006	Page
ade name: Marabu Sketch Marke	_	919	Mara
		Version: 1/GB	Date revised: 12.02.202
ubstance number: 0148000001	02-919	Replaces Version: - / GB	Print date: 27.02.2
1-Methoxy-2-propanol			
Type of value	PNEC		
Type Concentration	Fresh	water 10	mg/l
			5
Type of value	PNE0 Wate		
Type Concentration	vvale	41.6	mg/kg
The state of the s			
Type of value Type	PNE0 Sedin		
Concentration	Sedin	41.6	mg/kg
			5.5
Type of value	PNEC		
Type Concentration	iviarin	e sediment 4,17	mg/kg
		.,	
Type of value	PNEC		
Type Concentration	Soil	2.47	maka
Concentration		2,47	mg/kg
Type of value	PNEC		
Type Concentration	Sewa	ge treatment plant (STP) 100	mg/l
2. Exposure controls Exposure controls Provide adequate ventilatic	on. Where re	asonably practicable this shou	ld be achieved by the use of local
		xtraction. If these are not suffic the OEL, suitable respiratory pr	ient to maintain concentrations of rotection must be worn.
Respiratory protection			
If workers are exposed to c respirators. Full mask, filter		ns above the exposure limit the	y must use appropriate, certified
Hand protection			
individual or combination of	f chemicals. handling nit	pination of materials that will giv rile rubber gloves with textile ur 0,5 mm	
Breakthrough time		30 min	
		r than the end use time of the p led by the glove manufacturer o	product. on use, storage, maintenance and
replacement must be follow	ved.		-
		nd if there is any sign of damag n defects and that they are stor	
The performance or effective maintenance.	veness of th	e glove may be reduced by phy	vsical/ chemical damage and poor
Barrier creams may help to once exposure has occurre		exposed areas of the skin, the	y should however not be applied
Eye protection			
Eye protection Use safety eyewear design	ed to protec	t against splash of liquids.	
	ed to protec	t against splash of liquids.	

# **SECTION 9: Physical and chemical properties**

Item Numbers: 82325-1003

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ISDS for #82325 - MARABU SKETCH <del>Safety data sheet in accordance wit</del>	h regula	tion (EC) No 1907/2			
rade name: Marabu Sketch Marker H	leat 6tlg.	919			$\mathbb{N}$
	0	Version: 1/GB		Date revised: 12.02.2	Marab 2020
Substance number: 0148000000102-	919	Replaces Version:	- / GB	Print date: 27.0	2.20
0.1. Information on basic phys Form	<b>sical an</b> Liquic		erties		
Colour	yellov				
Odour	solver				
Odour threshold					
Remarks	No da	ta available			
pH value					
Remarks	Not a	oplicable			
Melting point					
Remarks	not de	etermined			
Freezing point	u				
Remarks	not de	etermined			
Initial boiling point and boili					
Value	appr.		°C		
Flash point	uppi.	10	Ũ		
Value		12	°C		
Evaporation rate (ether = 1)		12	Ũ		
Remarks		etermined			
Flammability (solid, gas)	not at				
Not applicable					
Upper/lower flammability or	-				
Lower explosion limit Upper explosion limit	appr. appr.	1,5 15	%(V) %(V)		
Source		ture value	70(V)		
Vapour pressure					
Value	appr.	59	hPa		
Vapour density	- 1 1				
Remarks	not de	etermined			
Density					
Remarks	not de	etermined			
Solubility in water	u				
Remarks	partia	lly miscible			
Partition coefficient: n-octar	-	•			
Remarks		oplicable			
Ignition temperature					
Value	appr.	287	°C		
Source		ture value	Ũ		
Efflux time					
Value	<	12	S		
Temperature		20 °C			
Method	DIN 5	3211 4 mm			
Explosive properties					
evaluation	no				
Oxidising properties					
evaluation	None	known			
0.2. Other information					

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MSDS for #82325 - MARABU SKET Safety data sheet in accordance v	CH MARI	(ER lation (EC) No 1907/20	06	Page
Lesty and shoet in aboundance v				
Trade name: Marabu Sketch Marke	er Heat 6t	g. 919		
		Version: 1/GB		Date revised: 12.02.20
Substance number: 014800000010	02-919	Replaces Version:	- / GB	Print date: 27.02.
Other information The physical specifications			r to the used safet	y relevant component(s).
SECTION 10: Stability an 10.1. Reactivity	a reac	tivity		
No hazardous reactions wh	en stored	and handled according	to prescribed inst	tructions.
10.2. Chemical stability Stable under recommended	d storage	and handling conditions	s (see section 7).	
<b>10.3. Possibility of hazardou</b> Keep away from oxidising a exothermic reactions.			ngly acid materials	in order to avoid
10.4. Conditions to avoid When exposed to high temp	peratures	may produce hazardou	s decomposition p	products.
10.5. Incompatible materials	5			
No hazardous reactions wh	en stored	and handled according	to prescribed inst	tructions.
SECTION 11: Toxicologic	al info	rmation		
11.1. Information on toxicol	ogical e		lassification criteri	a are not met.
11.1. Information on toxicol Acute oral toxicity	<b>ogical e</b> Based	ffects	lassification criteri	a are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species	<b>ogical e</b> Based	ffects		a are not met.
11.1. Information on toxicolo Acute oral toxicity Remarks Acute oral toxicity (Compo 1-Methoxy-2-propanol Species LD50	ogical e Based onents)	ffects	lassification criteri mg/kg	a 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	ogical e Based onents) rat	ffects on available data, the c 5200	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	ogical e Based onents) rat Based	ffects on available data, the c 5200 on available data, the c	mg/kg	
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 (Cor	ogical e Based onents) rat Based	ffects on available data, the c 5200 on available data, the c	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 (Cor 1-Methoxy-2-propanol	ogical e Based onents) rat Based mponen	ffects on available data, the c 5200 on available data, the c	mg/kg	
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 (Cor	ogical e Based onents) rat Based	ffects on available data, the c 5200 on available data, the c	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 (Cor 1-Methoxy-2-propanol Species LD50	ogical e Based onents) rat Based mponen rabbit	ffects on available data, the c 5200 on available data, the c t <b>s)</b>	mg/kg	
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 (Cor 1-Methoxy-2-propanol Species	based based onents) rat Based mponen rabbit	ffects on available data, the c 5200 on available data, the c t <b>s)</b>	mg/kg lassification criteri mg/kg	a 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 (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity	based based onents) rat Based mponen rabbit	ffects on available data, the o 5200 on available data, the o t <b>s)</b> 14000	mg/kg lassification criteri mg/kg	a 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 (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks	ogical e Based onents) rat Based mponen rabbit	ffects on available data, the o 5200 on available data, the o t <b>s)</b> 14000	mg/kg lassification criteri mg/kg lassification criteri	a are not met. a are not met.
<ul> <li>11.1. Information on toxicole</li> <li>Acute oral toxicity         <ul> <li>Remarks</li> </ul> </li> <li>Acute oral toxicity (Composite of the second sec</li></ul>	ogical e Based onents) rat Based mponen rabbit Based Based	ffects on available data, the o 5200 on available data, the o t <b>s)</b> 14000 on available data, the o	mg/kg lassification criteri mg/kg lassification criteri	a are not met. a 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 (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation	ogical e Based onents) rat Based mponen rabbit Based Based	ffects on available data, the o 5200 on available data, the o t <b>s)</b> 14000 on available data, the o	mg/kg lassification criteri mg/kg lassification criteri	a are not met. a 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 (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat	ogical e Based onents) rat Based mponen rabbit Based Based tion irritant	ffects on available data, the o 5200 on available data, the o t <b>s)</b> 14000 on available data, the o	mg/kg lassification criteri mg/kg lassification criteri	a are not met. a 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 (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritation evaluation	ogical e Based onents) rat Based mponen rabbit Based Based tion irritant	ffects on available data, the c 5200 on available data, the c ts) 14000 on available data, the c on available data, the c	mg/kg lassification criteri mg/kg lassification criteri	a are not met. a are not met.
<ul> <li>11.1. Information on toxicole</li> <li>Acute oral toxicity</li> <li>Remarks</li> <li>Acute oral toxicity (Composite of the second s</li></ul>	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla	ffects on available data, the c 5200 on available data, the c ts) 14000 on available data, the c on available data, the c	mg/kg elassification criteri mg/kg elassification criteri	a are not met. a are not met. a 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 (Cor 1-Methoxy-2-propanol Species LD50 Acute inhalational toxicity Remarks Skin corrosion/irritation Remarks Serious eye damage/irritat evaluation Remarks Sensitization	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla	ffects on available data, the o 5200 on available data, the o ts) 14000 on available data, the o on available data, the o	mg/kg elassification criteri mg/kg elassification criteri	a are not met. a are not met. a are not met.
<ul> <li>11.1. Information on toxicole</li> <li>Acute oral toxicity</li> <li>Remarks</li> <li>Acute oral toxicity (Composite of the second of</li></ul>	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	ffects on available data, the o 5200 on available data, the o ts) 14000 on available data, the o on available data, the o	mg/kg elassification criteri mg/kg elassification criteri elassification criteri	a are not met. a are not met. a are not met. a are not met.
<ul> <li>11.1. Information on toxicole</li> <li>Acute oral toxicity</li> <li>Remarks</li> <li>Acute oral toxicity (Composite on the second of the second of</li></ul>	ogical e Based onents) rat Based mponen rabbit Based tion irritant The cla Based	ffects on available data, the o 5200 on available data, the o ts) 14000 on available data, the o on available data, the o assification criteria are n on available data, the o	mg/kg elassification criteri mg/kg elassification criteri elassification criteri	a are not met. a are not met. a are not met. a are not met.

MSDS for #82325 - MARABU SKET	CH MAR	KFR			Page 75 m 7
Safety data sheet in accordance v	vith regu	lation (EC	<del>) No 1907/2</del>	006	
Trada pama: Marahu Skatah Marka		a 010			
Trade name: Marabu Sketch Marke	r Heat 6t	0	: 1/GB		Marabu Marabu Date revised: 12.02.2020
Substance number: 014800000010	02 010		es Version:	-/GB	Print date: 27.02.20
	02-919	Replace			1 1111 date: 27.02.20
Carcinogenicity					
Remarks	Based	on availab	le data, the	classification cri	teria are not met.
Specific Target Organ Tox	icity (S	ΓΟΤ)			
Single exposure		-			
Remarks	Based	on availab	le data, the	classification cri	teria are not met.
Repeated exposure					
Remarks	Based	on availab	le data, the	classification cri	teria are not met.
Aspiration hazard					
Based on available data, the	e classific	cation crite	ria are not m	et.	
Experience in practice Exposure to component solv					
limit may result in adverse h and adverse effects on kidn dizziness, fatigue, muscular Solvents may cause some of contact with the mixture may dermatitis and absorption th	nealth effe ey, liver a weaknes of the abo y cause r arough the m may ca iate effect	ects such a and central ss, drowsin ove effects removal of e skin. The suse nause its and also	as mucous m nervous systess and in e by absorptic natural fat fr liquid splas a, diarrhoea chronic effe	embrane and restern. Symptoms extreme cases, I on through the s om the skin rest ned in the eyes and vomiting. T ects of compone	espiratory system irritation s and signs include headache, loss 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 asses 1272/2008 and classified fo					Regulation (EC) No
SECTION 12: Ecological 12.1. Toxicity	inform	<u>nation</u>			
General information					
There are no data available	following	the summ	ation metho		s or water courses.The egulation (EC) No 1272/2008
Fish toxicity (Components	5)				
1-Methoxy-2-propanol					
Species	-	•	iscus idus)		
LC0 Duration of exposure	>	4600 96	h	mg/l	
Daphnia toxicity (Compon	ents)	50			
1-Methoxy-2-propanol	,				
Species	Daphn	ia magna			
EC50		23300	6	mg/l	
Duration of exposure	te)	48	h		
Algae toxicity (Component	13)				
1-Methoxy-2-propanol Species	Desmo	odesmus			
EC50	>	1000		mg/l	
Duration of exposure		168	h		
Bacteria toxicity (Compon	ents)				
1-Methoxy-2-propanol Species	activat	ed sludge			
L					

MSDS for #82325 - MAR	ABU SKETCH MAR	<pre>KFR</pre>		Page 📬
Safety data sheet in ac	cordance with regu	lation (EC) No 1907/200	6	
Trade name: Marabu Sl	ketch Marker Heat 6t	lg. 919		
		Version: 1 / GB		Date revised: 12.02.2020
Substance number: 01	48000000102-919	Replaces Version: - /	GB	Print date: 27.02.20
EC50	>	1000	mg/l	
12.2. Persistence a	and degradability	,		
<b>General informa</b> No data availab				
Biodegradability	y (Components)			
1-Methoxy-2-pro	panol			
Value Duration of test		90 28 d	%	
evaluation		y biodegradable (accordir	ig to OECD criteria	a)
Method	OECD	301 F	-	
12.3. Bioaccumulat	tive potential			
General informa				
	ata available on the m			
Partition coeffic Remarks	ient: n-octanol/wa			
		applicable		
12.4. Mobility in so				
General informa	ation ata available on the m	ivturo itcolf		
12.5. Results of PB		essment		
General informa	ation ata available on the m	ivture iteelf		
12.6. Other adverse General informa				
	ata available on the m	ivture itself		
SECTION 13: Dis	posal conside	rations		
13.1. Waste treatm	ent methods			
Disposal recom	mendations for the	e product		
Do not allow to	enter drains or water	courses.		
		Ild be classified in accord sification of this product,		
EWC waste coo				
-		stes, the original waste pr		
	le should be assigned mation contact your le			
	mendations for pa			
•	•	fety data sheet, advice sh	ould be obtained f	from the relevant waste
authority on the	classification of emp	ty containers.		
	rs must be scrapped	or reconditioned. us waste (waste code nun	nber 150110)	
Not emplied ool				
SECTION 14: Tra	nsport inform	<u>ation</u>		

Frade name: Marabu Sketch	Version:	1 / GB	Marab Date revised: 12.02.2020	
Substance number: 014800	00000102-919 Replaces	Version: -/GB	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		
	_		_	

## Information for all modes of transport

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)

81,5 %

#### Other information

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

## 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

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	RABU SKETCH MARK				Page 70 n
	ccordance with regula		2006		
rade name: Marabu S	Sketch Marker Heat 6tlg			_	Marab
Substance number: 0 <sup>°</sup>	148000000102-919	Version: 1 / GB Replaces Version:	- / GB	Date revised: Print da	12.02.2020 te: 27.02.20
		•			
H225 H226		ammable liquid and volume and volume to the second se			
H319		serious eye irritation.			
H336		use drowsiness or diz	ziness.		
_	s listed in Chapter 3				
Eye Irrit. 2 Flam. Liq. 2		ation, Category 2 ble liquid, Category 2	>		
Flam. Liq. 2		ble liquid, Category 3			
STOT SE 3	Specific	target organ toxicity	- single exposure	e, Category 3	
Supplemental i	information ges compared with the				
The information legislation. It provides guid construed as a The product sh to the supplier As the specific for ensuring the The information	any specific product pro on in this Safety Data Sh dance on health, safety any guarantee of technic hould not be used for pu and obtaining written has conditions of use of the tat the requirements of r on contained in this safet is, as required by other h	eet is based on the p and environmental as cal performance or su irposes other than the andling instructions. e product are outside elevant legislation are ty data sheet does no	present state of k spects of the pro hitability for partic ose shown in Se the supplier's co e complied with. ot constitute the c	nowledge and currer duct and should not cular applications. ction 1 without first re ontrol, the user is resp	be eferring ponsible
umbers: 82325-1003		Page 13(13)			Page 78