COLOUR LIKE NO OTHER

IAKRS WAX DRIER

Cranfield Printmakers Wax Drier
Safety Data Sheet
According to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 09 July 2021
V1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier:

Product Name	Printmakers Wax Drier
Product Code:	WTC84356
Product Form:	Brown Wax Paste (Solid)

1.2 Relevant identified use of the mixture and uses advised against:

1.2.1 Relevant identified uses of the mixture: Drier additive for linseed oil-based inks

1.2.2 Uses advised against: No additional information available

1.3 Details of supplier of safety data sheet:

Cranfield Colours Ltd,
44-47 Springvale Estate,
Cwmbran NP44 5BB, Wales UK

Tel: 0044 (0)1633 861 421
email: hello@cranfield-colours.co.uk
website: www.cranfield-colours.co.uk

Date of Issue:	09th July 2021
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Revision:	V1.1
Previous Version	V1.0

1.4 Emergency telephone number:

+ 00 44 (0)1633 861421 - Office Hours Only (9am-5pm GMT/UTC). This is NOT a Poison centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture classification according to Regulation (EC) No. 1272/2008 [CLP]

Asp. Tox. 1	H304 - May be fatal if swallowed and enters airways
Eye Dam. 1	H318 - Causes serious eye damage
Repr. 2	H361 - Suspected of damaging the unborn child.
Aquatic Chronic 2	H411 - Toxic to aquatic life with long lasting effects.

Full text of H-phrases: see section 16

2.2. Label elements:

Labelling according to Regulation (EC) No. 1272/2008 :

Hazard Pictograms

GHS05 GHS08 GHS09

Signal word (CLP) **Danger**

Hazardous Ingredients which must be stated on the label:
- Calcium bis(2-ethylhexanoate)
- 2-ethylhexanoic acid, manganese salt
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes,Cyclics, <2% aromatics

Hazard statements (CLP):
H304 - May be fatal if swallowed and enters airways
H318 - Causes serious eye damage
H361 - Suspected of damaging the unborn child.
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP):

Prevention:
KEEP OUT OF REACH OF CHILDREN
P202 - Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P310 - IF SWALLOWED: Immediately call a doctor.
P305 + P351 + P338 + 310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor
P308+P313: IF exposed or concerned: Get medical attention

Disposal:
P501 - Dispose of contents/container to waste disposal site in accordance with local/national regulations

EUH phrases
EUH066 - Repeated exposure may cause skin dryness or cracking
EUH210 - Safety data sheet available on request.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Hazardous Components:

Chemical Name	Product identifier	Classification (EC) 1272/2008 [CLP]	Concentration (%w/w)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS: 64742-48-9 EC: 918-481-9 REACH No.: 01-2119457273-39	H336 Asp. Tox. 1; H304	<=18%
calcium bis(2-ethylhexanoate)	CAS: 136-51-6 EC: 205-249-0 REACH No.: 01-2119978297-19	Eye Dam. 1; H318 Repr. 2; H361	<=12%
2-ethylhexanoic acid, manganese salt	CAS: 15956-58-8 EC: 240-085-3 REACH No.: 01-2119979087-23	Eye Irrit. 2; H319 Repr. 2; H361 STOT RE 2; H373 Aquatic Chronic 2; H411	<=5%
Substances with a workplace exposure limit:			
(2-methoxymethylethoxy)propanol	CAS: 34590-94-8 EC: 252-104-2 REACH No. 01-2119450011-60		<=5%

Full text H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.
If you feel unwell, seek medical advice (where possible show the label or Safety Data Sheet to the doctor)
Move out of dangerous area.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

First-aid measures after inhalation : Move to fresh air.
Consult a physician after significant exposure.
If unconscious, place in recovery position and get medical attention immediately.

First-aid measures after skin contact : Wash contaminated clothing before reuse.
If on skin, rinse well with soapy water.
If on clothes, remove clothes.

First-aid measures after eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Remove contact lenses.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

First-aid measures if swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a doctor, poison centre, or take immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after eye contact : Excessive lachrymation

Symptoms/injuries after ingestion : Stomach/intestinal disorders

Symptoms/injuries after inhalation : Aspiration may cause pulmonary oedema and pneumonitis
Shortness of breath
Asthma

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide

Unsuitable extinguishing media : High volume water jet
Water

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from firefighting to enter drains or water courses.
Do not use a solid water stream as it may scatter and spread fire.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

5.3. Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate unnecessary personnel.

For emergency responders

Protective equipment	:	Equip clean-up crew with proper protection. Avoid breathing vapours, mist, spray.
Emergency procedures	:	Ventilate area.

6.2. Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	Collect bulk with a shovel or scoop, residues can be cleaned up with a water dampened, non-combustible material. Avoid organic combustible rags and store spilled material away from other materials. Use appropriate PPE defined in section 8.

6.4. Reference to other sections

See section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	:	Do not breathe vapours. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Use in well ventilated areas. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in tightly closed original container in a dry, cool and well-ventilated place. No smoking. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight.
Other Data		Stable under recommended storage conditions.

7.3. Specific end use(s)

Consumer use: Inks

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limits:

Components	CAS-No.	Value Type (Form of exposure)	Control Parameters	Basis
(2-methoxymeth-ylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m3	2000/39/EC
	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 308 mg/m3	GB EH40
	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
Paraffin waxes and Hydrocarbon Waxes		TWA	2 mg/m3	GB EH40
		STEL	6 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

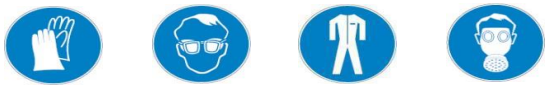
Substance name	End Use	Exposure routes	Potential health effects	Value
2- methoxymethyleth-oxy)propanol	Consumers	Ingestion	Long-term exposure	1,67 mg/kg
	Consumers	Inhalation	Long-term systemic effects	37,2 mg/m3
	Consumers	Skin contact	Long-term systemic effects	15 mg/kg
	Workers	Inhalation	Long-term systemic effects	310 mg/m3
	Workers	Skin contact	Long-term systemic effects	65 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2- methoxymethyleth-oxy)propanol	Fresh water	19 mg/l
	Marine water	1,9 mg/l
	Fresh water sediment	70,2 mg/kg dry weight (d.w.)
	Marine sediment	7,02 mg/kg dry weight (d.w.)
	Soil	2,74 mg/kg dry weight (d.w.)
	Sewage treatment plant	4168 mg/l

8.2. Exposure controls

Personal protective equipment :



Gloves
Safety glasses with side shields
Impervious Clothing
Significant handling of this material should not produce significant quantities of vapours, however; If using in areas with insufficient ventilation, contravening the Occupational Exposure Limits stated in section 8.1: wear respiratory protection.

Skin/Body protection : Wear protective gloves resistant to Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics. Consult with protective glove manufacturer for suitable material.
Wear impervious clothing which prevents or limits absorption.

Eye protection : Chemical goggles or safety glasses with side shield EN166 or CFR 1910.133

Respiratory protection : If using in areas with insufficient ventilation: wear respiratory protection.
Filter type: A1 organic vapours.

Other information : Do not eat, drink or smoke during use.
Avoid all unnecessary exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid (ASTM D 4359)
Colour	:	Brown
Rel. evaporation rate (nBuAc=1)	:	Component: 0.04 (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics)
Melting point	:	99-109°C
Boiling point	:	186°C
Flash point	:	100.5 °C (ISO 3679:2004)
Auto-ignition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	37.1 Pa @ 20°C ((2-methoxymethylethoxy)propanol)
Relative density	:	1.07kg/ltr @ 20°C
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits (%v/v)	:	0.7 – 6.0 (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal ambient temperature and pressure.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions
Vapours may form explosive mixture with air.
May react violently if contact with acids

10.4. Conditions to avoid
Direct sunlight
Extremely high or low temperatures
Open flame, heat, flames and sparks.

10.5. Incompatible materials
Strong acids
Strong bases
Strong oxidising agents
Peroxides
Amines

10.6. Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product:		
WTC84356 Printmakers Wax Drier:	Acute oral toxicity	No data available May cause irritation of the gastrointestinal tract.
	Acute inhalation toxicity	No data available
	Acute dermal toxicity	No data available
Components:		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics:	Acute oral toxicity	LD50 (Rat): > 6.000 mg/kg
	Acute inhalation toxicity	The substance or mixture has no acute inhalation toxicity
	Acute dermal toxicity	The substance or mixture has no acute dermal toxicity
2-ethylhexanoic acid, manganese salt:	Acute oral toxicity	LD50 (Rat, male and female): 2.150 mg/kg Remarks: Based on read across from structural related substance
	Acute inhalation toxicity	LC50 (Rat, male and female): > 4,45 mg/l Exposure time: 4 h Test atmosphere: dust/mist GLP: yes Remarks: Based on read across from structural related substance
	Acute dermal toxicity	Assessment: The substance or mixture has no acute dermal toxicity
2- methoxymethyleth-oxy)propanol:	Acute oral toxicity	LD50 (Rat): 5.135 mg/kg
	Acute inhalation toxicity	Assessment: The substance or mixture has no acute inhalation toxicity
	Acute dermal toxicity	Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation	:	Not classified, may cause skin irritation is susceptible persons.
Serious eye damage/irritation	:	Product: No data available Components: **calcium bis(2-ethylhexanoate):** Irreversible effects on the eye
Respiratory or skin sensitisation	:	No data available
Germ cell mutagenicity	:	No data available
Carcinogenicity	:	No data available
Reproductive toxicity	:	Product: No data available Components: **calcium bis(2-ethylhexanoate)**: Reproductive toxicity Assessment: Some evidence of adverse effects on development, based on animal experiments.
STOT (single exposure)	:	Product: At processing or combustion temperatures this product may emit fumes and vapours that cause irritation, possibly severe, to the respiratory tract, eyes, or skin., If material is misted or if vapours are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
STOT (repeated exposure)	:	Product: No data available Components: **2-ethylhexanoic acid, manganese salt**: Exposure routes: Inhalation Assessment: May cause damage to organs through prolonged or repeated exposure. Exposure routes: Skin contact Assessment: May cause damage to organs through prolonged or repeated exposure. Exposure routes: Ingestion Assessment: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	:	No data available
Potential adverse human health effects and symptoms:	:	No data available
Other information	:	No data available

SECTION 12: Ecological information

12.1. Toxicity

Components:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics:		
Ecotoxicology Assessment	Acute aquatic toxicity	This product has no known ecotoxicological effects.
	Chronic aquatic toxicity	This product has no known ecotoxicological effects.

(2-methoxymethylethoxy)propanol:	
Toxicity to fish	LC50 (Fish): > 10.000 mg/l, Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia (water flea)): 1.919 mg/l, Exposure time: 48 h
2-ethylhexanoic acid, manganese salt:	
Toxicity to fish (LC50)	(Oryzias latipes (Orange-red killifish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Fresh water Based on read across from structural related substance
Toxicity to daphnia and other aquatic invertebrates (LC50)	LC50 (Hyalella azteca): 3 mg/l Exposure time: 96 h Test Type: static test Remarks: Fresh water unit expressed as mg metal/l Based on read across from structural related substance
Toxicity to fish (Chronic tox-icity) (NOEC)	0,6 mg/l Exposure time: 120 d Species: Oncorhynchus mykiss (rainbow trout) Remarks: Fresh water Based on read across from structural related substance
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity) (NOEC)	NOEC: 25 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 GLP: no Remarks: Fresh water Based on read across from structural related substance
CAS-No. 471-34-1	
Toxicity to fish (LC50)	5600 mg/l (Gambusia affinis (Mosquito fish); 96 h) 100 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates (LC50)	100 mg/l (Daphnia magna (Water flea); 48 h) (OECD Test Guideline 202)
algae EC50	14 mg/l (Desmodesmus subspicatus (green algae); 72 h) (OECD Test Guideline 201)
Algae (NOEC)	14 mg/l (Desmodesmus subspicatus (green algae); 72 h) (OECD Test Guideline 201)
Bacteria (EC50)	1000 mg/l (activated sludge; 3 h) (OECD Test Guideline 209)
Bacteria (NOEC)	1000 mg/l (activated sludge; 3 h) (OECD Test Guideline 209)

12.2. Persistence and degradability

Product:

Persistence and degradability : No data available

12.3. Bioaccumulative potential

Components:

(2-methoxymethylethoxy)propanol: Partition coefficient: n-octanol/water log Pow: 0,004

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Toxic to aquatic life with long lasting effects. Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	:	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an authorized waste treatment plant.
Additional information	:	Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	:	Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

14.1. UN number : 3077

14.2. UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es) :

ADR/RID

Class	9
Classification Code	M7
Packing group	III
Special Provisions	274 335 375 601
Limited quantities	5 kg
Excepted quantities	E1
Emergency Action Code	2Z
Mixed Packing instructions	P002 IBC08 LP02 R001
Special packing provisions	PP12 B3
ADR Transport Category	3
Tunnel restriction code	-
Special provisions for carriage Packages	V13
Special provisions for carriage Bulk	VC1 VC2
Special provisions for carriage Loading	CV13
Hazard identification No	90
EAC HIN	90

IMDG

Class	9
Special Provisions	274 335 375 601
Limited quantities	5 kg
Excepted quantities	E1
Mixed Packing instructions	P002 IBC08 LP02 R001
Special packing provisions	PP12 B3
IMDG EMS	F-A, S-F
Emergency Stowage	Category A SW23

IATA

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Excepted Quantities	E1
PCA limited PKg	Y956
PCA limited Net	30Kg G
PCA PKg instructions	956
PCA Net	400Kg
CA PKg_instructions	956
CA Net	400Kg
Special provisions	A97, A158, A179, A197
ERG code	9L

14.4. Packing group : III

14.5. Environmental hazards : Yes

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Changes since Last Revision:
Section 9:
Section 14

Full text H- and EUH-phrases:

Aquatic Chronic 2	:	Chronic aquatic toxicity, Category 2
Asp. Tox. 1	:	Aspiration hazard, Category 1
STOT RE 2	:	Specific target organ toxicity - repeated exposure, Category 2
Repr. 2	:	Reproductive Toxicity, Category 2
Eye Dam. 1	:	Serious Eye Damage, Category 1
Eye Irrit. 2	:	Eye irritation, Category 2
H304	:	May be fatal if swallowed and enters airways
H318	:	Causes serious eye damage
H319	:	Causes serious eye irritation
H373	:	May cause damage to organs through prolonged or repeated exposure.
H411	:	Toxic to aquatic life with long lasting effects
H361	:	Suspected of damaging fertility in unborn child
Data sources	:	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Abbreviations and acronyms	:	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road). ATE: Acute Toxicity Estimated. CAS: Chemical Abstracts Service (division of the American Chemical Society). CLP: Classification, Labeling and Packaging. CMR: Carcinogeen, Mutageen, Reprotoxisch . CSA: Chemical Safety Assessment . CSR: Chemical Safety Report . DNEL: Derived No Effect Level (for human). EC50: Median Effective Concentration (required to induce a 50% effect). EINECS: European Inventory of Existing Commercial Chemical Substances. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. IATA: International Air Transport Association. IMDG: International Maritime Code for Dangerous Goods. LC50: Lethal concentration, 50 percent. LD50: Lethal dose, 50 percent . PBT: Persistent, Bio accumulating and Toxic. PNEC: Predicted No Effect Concentration (for environment) . REACH: Registration, Evaluation and Authorisation of Chemical substances . RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail). SVHC: Substances of Very High Concern . vPvB: very Persistent, very Bio accumulating.
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