

## Safety Data Sheet according to WHS Regulations

Date of issue: 04.09.2024

Version number 1.2

Revision: 04.09.2024

### 1 Identification

- **Other means of identification**
- **Trade name:**  
**KREUL Transfer Marker edge, XXL**  
**(Safety data sheet for the included ink.)**
- **Article number:** 49931, 49932, 499300
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Transfer Marker.  
For artists and hobby user.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
C. KREUL GmbH & Co. KG  
Carl-Kreul-Straße 2  
D-91352 HALLERNDORF  
GERMANY  
Phone: + 49 (0) 9545/925 - 0  
Fax: + 49 (0) 9545/925 - 511  
info@c-kreul.de
- Importer  
Zart Art Pty Ltd  
48 Overseas Drive  
Noble Park North 3174  
VIC  
Australia  
Phone: 61 3 9890 1867 / Fax: 61 3 9898 6527
- **Further information obtainable from:** Phone: 61 3 9890 1867 / Fax: 61 3 9898 6527
- **Emergency telephone number:** Poison Centre, Phone: 13 11 26

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



Flammable liquids – Category 3

H226 Flammable liquid and vapour.

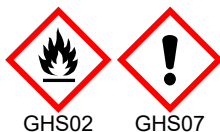


Specific target organ toxicity (single exposure) – Category 3 H336 May cause drowsiness or dizziness.

- **Label elements**

EC Regulation 1907/2006 (REACH) differentiates between substances, mixtures and articles. In accordance with the definition of articles in REACH, the European Writing Instrument Manufacturer's Association (EWIMA) considers writing instruments, marker pens etc. to be articles. However, no safety data sheets are provided for articles. In contrast, safety data sheets are mandatory for substances and mixtures. For this reason, the information in the safety data sheet provided always refers to the basic ink and not to the product as a whole.

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



- **Signal word** Warning

- **Hazard-determining components of labelling:**  
2-methoxy-1-methylethyl acetate

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### · Hazard statements

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

### · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · Other hazards

### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

## 3 Composition and Information on Ingredients

· **Description:** Mixture of substances listed below with nonhazardous additions.

### · Dangerous components:

CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate ⚠ Flammable liquids – Category 3, H226	25-<50%
CAS: 687-47-8 EINECS: 211-694-1 Index number: 607-129-00-7	ethyl (S)-2-hydroxypropionate ⚠ Flammable liquids – Category 3, H226; ⚠ Acute toxicity - inhalation – Category 3, H331; ⚠ Eye damage/irritation – Category 1, H318; ⚠ Specific target organ toxicity (single exposure) – Category 3, H335	20-<50%
	Ester of inorganic acid ⚠ Eye damage/irritation – Category 2A, H319	10-<25%
CAS: 112-07-2 EINECS: 203-933-3 Index number: 607-038-00-2	2-butoxyethyl acetate ⚠ Acute toxicity - oral – Category 4, H302; Acute toxicity - dermal – Category 4, H312; Acute toxicity - inhalation – Category 4, H332; Flammable liquids – Category 4, H227	5-<10%

### · Additional information:

Ethyl-(S)-2-hydroxypropionat (CAS 687-47-8): Experimental tests done on this blend by certified laboratories have evidenced that this product is not dangerous for eyes contact. Accordingly to OECD 491 – August 2016  
For the wording of the listed hazard phrases refer to section 16.

## 4 First Aid Measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and acidic soap.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Remove contact lenses.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## 5 Fire Fighting Measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

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### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Keep contaminated washing water and dispose of appropriately.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Keep receptacles tightly sealed.  
Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Do not store together with oxidising and acidic materials.
- **Further information about storage conditions:**  
Store receptacle in a well ventilated area.  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **Storage class:** 3
- **Specific end use(s)** See chapter 1.2.

### 8 Exposure controls and personal protection

- **Ingredients with limit values that require monitoring at the workplace:**

#### 108-65-6 2-methoxy-1-methylethyl acetate

WES	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 274 mg/m <sup>3</sup> , 50 ppm
	Sk

#### 112-07-2 2-butoxyethyl acetate

WES	Short-term value: 333 mg/m <sup>3</sup> , 50 ppm
	Long-term value: 133 mg/m <sup>3</sup> , 20 ppm
	Sk

- **DNELs**

#### 108-65-6 2-methoxy-1-methylethyl acetate

Oral	chronic - systemic effect	36 mg/kg bw/d (general population)
Dermal	chronic - systemic effect	320 mg/kg bw/d (general population) 796 mg/kg bw/d (worker)
Inhalative	acute - local effect	550 mg/m <sup>3</sup> (worker)
	chronic - systemic effect	33 mg/m <sup>3</sup> (general population) 275 mg/m <sup>3</sup> (worker)

#### Ester of inorganic acid

Oral	chronic - systemic effect	10 mg/kg bw/d (general population)
Dermal	chronic - local effect	10 mg/kg bw/d (worker)
	chronic - systemic effect	10 mg/kg bw/d (general population) 20 mg/kg bw/d (worker)
Inhalative	chronic - local effect	10 mg/m <sup>3</sup> (general population) 20 mg/m <sup>3</sup> (worker)
	chronic - systemic effect	17.4 mg/m <sup>3</sup> (general population) 70.53 mg/m <sup>3</sup> (worker)

#### 112-07-2 2-butoxyethyl acetate

Dermal	chronic - systemic effect	169 mg/kg bw/d (worker)
Inhalative	chronic - systemic effect	133 mg/m <sup>3</sup> (worker)

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· PNECs	
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
water	6.35 mg/l
freshwater	0.635 mg/l
marine water	0.0635 mg/l
sewage treatment plant (STP)	100 mg/l
freshwater sediment	3.29 mg/kg
marine sediment	0.329 mg/kg
soil	0.29 mg/kg
<b>687-47-8 ethyl (S)-2-hydroxypropionate</b>	
water	3.2 mg/l
freshwater	0.32 mg/l
marine water	0.032 mg/l
freshwater sediment	1.66 mg/kg
marine sediment	0.166 mg/kg
soil	0.145 mg/kg
<b>Ester of inorganic acid</b>	
freshwater	0.9 mg/l
marine water	0.09 mg/l
sewage treatment plant (STP)	7,400 mg/l
soil	0.81 mg/kg
<b>112-07-2 2-butoxyethyl acetate</b>	
freshwater	0.304 mg/l
marine water	0.03 mg/l
sewage treatment plant (STP)	90 mg/l
freshwater sediment	2.03 mg/kg
marine sediment	0.203 mg/kg
soil	0.415 mg/kg

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.7$  mm

Value for the permeation: Level  $\leq 480$  min

· **As protection from splashes gloves made of the following materials are suitable:**

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.7$  mm

Value for the permeation: Level  $\leq 480$  min

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

## 9 Physical and Chemical Properties

· **General Information**

· **Appearance:**

· **Form:** Fluid

· **Odour:** Solvent-like

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

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- **Initial boiling point and boiling range:** 146.4 °C
- **Flash point:** 59 °C
- **Flammability:** Flammable.
- **Auto-ignition temperature:** 280 °C
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Not determined.
- **Explosion limits:**
- **Lower:** 1.5 Vol %
- **Upper:** 11.4 Vol %
- **Vapour pressure at 20 °C:** 3.4 hPa
- **Density at 20 °C:** 1.038 g/cm<sup>3</sup>
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with water:** Partly miscible.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.
- **Solvent content:**
- **Organic solvents:** 40.0 %
- **VOC (EC):** 40.00 %

· **Other information** No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Possibility of hazardous reactions** Reacts with oxidising agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
In case of fire, the following can be released:  
Carbon monoxide and carbon dioxide

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### LD/LC50 values relevant for classification:

##### 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rab)
		>2,000 mg/kg (rat) (OECD 401)
Inhalative	LC50/4h	>10,000 mg/l (rat)

##### 687-47-8 ethyl (S)-2-hydroxypropionate

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	>5.4 mg/m <sup>3</sup> (rat)

##### Ester of inorganic acid

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

##### 112-07-2 2-butoxyethyl acetate

Oral	LD50	1,880 mg/kg (rat) (OECD 401)
Dermal	LD50	1,500 mg/kg (rabbit) (ECHA)
Inhalative	LC50/4h	>2.66 mg/m <sup>3</sup> (rat) (EU B.1, ECHA)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Ethyl-(S)-2-hydroxypropionat (CAS 687-47-8): Experimental tests done on this blend by certified laboratories have evidenced that this product is not dangerous for eyes contact. Accordingly to OECD 491 – August 2016
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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· **Aspiration hazard** Based on available data, the classification criteria are not met.

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## 12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**

**108-65-6 2-methoxy-1-methylethyl acetate**

LC50/96h	180 mg/l (oncorhynchus mykiss)
EC50/48h	>500 mg/l (daphnia magna)
EbCx 10%	>1,000 mg/l (microorganisms)
EC50/21d	>100 mg/l (daphnia magna) (OECD 211)
ErC50/96h	>1,000 mg/l (pseudokirchneriella subcapitata)
LC50	63.5 mg/l (oryzias latipes) (OECD 204)
LOEC/96h	>1,000 mg/l (pseudokirchneriella subcapitata)
NOEC/48d	47.5 mg/l (oryzias latipes) (OECD 204)

**687-47-8 ethyl (S)-2-hydroxypropionate**

LC50/96h	320 mg/l (danio rerio) (OECD 203)
EC50/48h	683 mg/l (daphnia magna) (OECD 202)
ErC50/96h	2,300 mg/l (pseudokirchneriella subcapitata) (OECD 201)
NOEC/48h	320 mg/l (daphnia magna) (OECD 202)
NOEC/72h	320 mg/l (algae) (OECD 201)

**Ester of inorganic acid**

LC50/96h	>1,000 mg/l (cyprinus caprio) (EU C1)
EC50/48h	>900 mg/l (daphnia magna) (OECD 201)
NOEC/96h	>900 mg/l (OECD 201)

**112-07-2 2-butoxyethyl acetate**

LC50/96h	<40 mg/l (oncorhynchus mykiss) (OECD 203)
EC50/48h	37 mg/l (daphnia magna) (DIN 38412 Teil 11)
EBC50	520 mg/l /72h (pseudokirchneriella subcapitata) (ISO 8692, ECHA)
EbCx 10%	30.4 mg/l /7d (ceriodaphnia dubia) (OECD 211)
EbCx 20%	>1,000 mg/l (activated sludge) (OECD 209)
ErC50	1,570 mg/l /72h (pseudokirchneriella subcapitata) (DIN EN ISO 8692)

· **Persistence and degradability**

Easily biodegradable

**108-65-6 2-methoxy-1-methylethyl acetate**

Carbon dioxide production	90 % /28d (OECD 301 F)
DOC removal	99 % /28d (OECD 301 F)
Oxygen consumption	83 % /28d (OECD 301 F)

**112-07-2 2-butoxyethyl acetate**

Oxygen consumption	88 % /28d (OECD 209)
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· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· **UN-Number**

· **ADG, IMDG, IATA**

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<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADG</b></li> </ul>	1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate, ETHYL LACTATE)
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate, ETHYL LACTATE)
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>	III
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	Warning: Flammable liquids. 30 F-E,S-E A
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	3 D/E
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 1993 FLAMMABLE LIQUID, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE, ETHYL LACTATE), 3, III

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Industrial Chemicals**

We confirm that they we are have checked the AICS under here <https://www.industrialchemicals.gov.au/search-inventory> and we can confirm that each ingredient is either listed on the AICS and within the allowable limit or meets restrictions on said ingredient.

All ingredients are listed.

- **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

- **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS02    GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
2-methoxy-1-methylethyl acetate
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

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### · Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P241 Use explosion-proof electrical/ventilating/lighting equipment.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · Directive 2012/18/EU

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c** FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Relevant phrases

- H226 Flammable liquid and vapour.  
 H227 Combustible liquid.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.

- **Contact:** Phone: 61 3 9890 1867 / Fax: 61 3 9898 6527

### · Abbreviations and acronyms:

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flammable liquids – Category 3: Flammable liquids – Category 3  
 Flammable liquids – Category 4: Flammable liquids – Category 4  
 Acute toxicity - oral – Category 4: Acute toxicity – Category 4  
 Acute toxicity - inhalation – Category 3: Acute toxicity – Category 3  
 Eye damage/irritation – Category 1: Serious eye damage/eye irritation – Category 1  
 Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A  
 Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3

- **\* Data compared to the previous version altered.**

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