

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## METALSTAR 07 0020 Gloss Silver

Version 10.0      Revision Date: 30.04.2024      SDS Number: 102000023597      Print Date: 03.05.2024  
Date of first issue: 07.09.2015

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

#### 1.1 Product identifier

Trade name : METALSTAR 07 0020 Gloss Silver  
Product code : 056281RC0M1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Colorant; Printing ink related material; Printing ink, Colouring agents, dyes

#### 1.3 Details of the supplier of the safety data sheet

Company : ECKART Suisse SA  
Route de la Brasserie 2  
1963 Vétroz  
Telephone : +410273454800  
Telefax : +410273454859  
E-mail address of person responsible for the SDS : [msds.eckart@altana.com](mailto:msds.eckart@altana.com)

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)  
Call and response in your language is possible.  
Contract no.: ECKART29003-NCEC.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 2      H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:		
Hazard statements	:	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P273 <b>Response:</b> P391 <b>Disposal:</b> P501	Avoid release to the environment. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.

### 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

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	ClassificationREGULATION (EC) No 1272/2008	Concentration (% w/w)
aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1  01-2119529243-45	Flam. Sol. 1; H228	>= 10 - < 20
Distillates (petroleum), solvent-refined middle; Gasoil — unspecified	64741-91-9 919-029-3	Asp. Tox. 1; H304	>= 10 - < 20
Petroleum resins	64742-16-1 265-116-8	Aquatic Chronic 4; H413	>= 10 - < 20
Distillates (petroleum), hydrotreated middle; Gasoil — unspecified	64742-46-7 927-632-8 649-221-00-X  01-2119457736-27- 000201-2119457736- 27	Asp. Tox. 1; H304	>= 1 - < 10

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1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9 01-2119451093-47	Repr. 2; H361d Aquatic Chronic 3; H412	$\geq 0.25 - < 1$
octadecylamine	124-30-1 204-695-3 612-282-00-8 01-2119473804-32	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 (Liver, Gastrointestinal tract, Immune system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	$\geq 0.25 - < 1$

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move the victim to fresh air.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

None known.

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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry sand  
ABC powder  
Foam

Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)  
  
High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 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.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

### 6.2 Environmental precautions

General advice : The product should not be allowed to enter drains, water courses or the soil.  
Prevent product from entering drains.

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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 : Use mechanical handling equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust).

Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the  
application area.  
Dispose of rinse water in accordance with local and national  
regulations.

Advice on protection against : Normal measures for preventive fire protection.  
fire and explosion

Hygiene measures : Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Earthing of containers and apparatuses is essential. Reaction  
areas and containers with water liberates extremely flammable gas (hydrogen) Take  
measures to prevent the build up of electrostatic charge. Use  
explosion-proof equipment. Store in original container. Keep  
containers tightly closed in a cool, well-ventilated place. Keep  
away from sources of ignition - No smoking. Keep container  
closed when not in use.

Keep container tightly closed in a dry and well-ventilated  
place. Containers which are opened must be carefully  
resealed and kept upright to prevent leakage. Observe label  
precautions. Electrical installations / working materials must  
comply with the technological safety standards.

Further information on : Protect from humidity and water.  
storage conditions

Advice on common storage : Do not store near acids.

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Do not store together with oxidizing and self-igniting products.  
Never allow product to get in contact with water during storage.  
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
aluminium powder (stabilised)	7429-90-5	TWA (Inhalable)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable fraction)	4 mg/m <sup>3</sup>	GB EH40
		TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.				
		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
Further information: For the purposes of these limits, respirable dust and				

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

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium powder (stabilised)	Workers	Inhalation	Long-term systemic effects	3.72 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	3.72 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	3.95 mg/kg
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Workers	Dermal	Long-term systemic effects	5.00 mg/kg
	Workers	Inhalation	Long-term systemic effects	17.62 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	5.00 mg/kg
	Consumers	Dermal	Long-term systemic effects	5.00 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.35 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
1-isopropyl-2,2-dimethyltrimethylene	Fresh water	0.014 mg/l

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diisobutyrate		
	Marine water	0.0014 mg/l
	Fresh water sediment	5.29 mg/kg
	Soil	1.05 mg/kg
	STP	3 mg/l
	Marine sediment	0.529 mg/kg
	oral (secondary poisoning)	83.3 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Goggles  
Tightly fitting safety goggles

Hand protection  
Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use suitable breathing protection if workplace concentration requires.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form : liquid

Colour : silver

Odour : characteristic

Odour Threshold : No data available

Freezing point : No data available



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Boiling point/boiling range : > 100 °C

Flammability : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : > 100 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity  
Viscosity, kinematic : > 21 mm<sup>2</sup>/s (40 °C)

Solubility(ies)  
Water solubility : insoluble  
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

Vapor Pressure for Components:  
Distillates (petroleum), hydrotreated middle; Gasoil — unspecified : 4 hPa (40 °C)  
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate : 1.5 Pa (25 °C)

Relative density : No data available

Density : 1 g/cm<sup>3</sup>

Relative vapour density : No data available

Particle characteristics  
Particle Size Distribution : No data available

### 9.2 Other information

No data available

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.  
No decomposition if stored and applied as directed.

#### 10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.  
No data available

#### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents

#### 10.6 Hazardous decomposition products

This information is not available.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Not classified based on available information.

##### Components:

##### aluminium powder (stabilised):

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

##### Distillates (petroleum), solvent-refined middle; Gasoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

##### 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:

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Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Not classified based on available information.

#### **Components:**

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### **octadecylamine:**

Assessment : Irritating to skin.

### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Components:**

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Species : Rabbit  
Exposure time : 72 h  
Method : OECD Test Guideline 405  
Result : No eye irritation

##### **octadecylamine:**

Assessment : Corrosive

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Components:**

##### **Distillates (petroleum), solvent-refined middle; Gasoil — unspecified:**

Carcinogenicity - : Classified based on the conditions cited in Nota N (Regulation

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Assessment (EC) 1272/2008, Annex VI, Part 3, Note N)

### **Distillates (petroleum), hydrotreated middle; Gasoil — unspecified:**

Carcinogenicity - Assessment : Classified based on the conditions cited in Nota N (Regulation (EC) 1272/2008, Annex VI, Part 3, Note N)

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Components:**

#### **octadecylamine:**

Exposure routes : Ingestion  
Target Organs : Liver, digestive system, Immune system  
Assessment : May cause damage to organs through prolonged or repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **Distillates (petroleum), solvent-refined middle; Gasoil — unspecified:**

May be fatal if swallowed and enters airways.

#### **Distillates (petroleum), hydrotreated middle; Gasoil — unspecified:**

May be fatal if swallowed and enters airways.

#### **octadecylamine:**

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

### **Further information**

### **Product:**

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Remarks : No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **Petroleum resins:**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 2.46 mg/l

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

##### **octadecylamine:**

M-Factor (Short-term (acute) aquatic hazard) : 10

M-Factor (Long-term (chronic) aquatic hazard) : 10

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

##### Product:

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.

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### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles  
European Waste Catalogue : 10 03 21\* - Aluminum thermal metallurgy wastes, other particles and dust (including ball mill dust) containing hazardous substances

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 3082  
IMDG : UN 3082  
IATA : UN 3082

### 14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(paint related material)  
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(paint related material)  
IATA : Environmentally hazardous substance, liquid, n.o.s.

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(paint related material)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADR</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

### 14.4 Packing group

<b>ADR</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
<b>IMDG</b>	
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
<b>IATA (Cargo)</b>	
Packing instruction (cargo aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: 9
<b>IATA (Passenger)</b>	
Packing instruction (passenger aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: 9

### 14.5 Environmental hazards

<b>ADR</b>	
Environmentally hazardous	: yes
<b>IMDG</b>	
Marine pollutant	: yes

### 14.6 Special precautions for user

Remarks	: For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.
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The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

- |  |   |   |
|--|---|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered:<br>Number on list 3<br>aluminium powder (stabilised) (Number on list 40)<br>Distillates (petroleum), hydrotreated middle; Gasoil — unspecified (Number on list 3)<br><br>(Number on list 3, 28)<br>1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (Number on list 3)<br>Distillates (petroleum), hydro-treated light; Kerosine — unspecified (Number on list 3) |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation  | : | Not applicable  |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)                            | : | Not applicable  |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer  | : | Not applicable  |
| UK REACH List of substances subject to authorisation (Annex XIV)   | : | Not applicable  |

### 15.2 Chemical safety assessment

No data available

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## SECTION 16: Other information

### Full text of H-Statements

- |      |   |   |
|------|---|---|
| H228 | : | Flammable solid.                              |
| H304 | : | May be fatal if swallowed and enters airways. |
| H315 | : | Causes skin irritation.                       |
-



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



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- H318 : Causes serious eye damage.
- H361d : Suspected of damaging the unborn child.
- H373 : May cause damage to organs through prolonged or repeated exposure.
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.
- H412 : Harmful to aquatic life with long lasting effects.
- H413 : May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

- Aquatic Acute : Short-term (acute) aquatic hazard
- Aquatic Chronic : Long-term (chronic) aquatic hazard
- Asp. Tox. : Aspiration hazard
- Eye Dam. : Serious eye damage
- Flam. Sol. : Flammable solids
- Repr. : Reproductive toxicity
- Skin Irrit. : Skin irritation
- STOT RE : Specific target organ toxicity - repeated exposure
- GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
- GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals

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Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Chronic 2                      H411

#### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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