



## CULR™ Art Pigment for Epoxy – Polished Silver

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Aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	≥ 25 - < 50
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	154518-38-4 (52933-07-0) 01-2119976356-25	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	≥ 3 - < 10
2-dimethylaminoethanol	108-01-0 203-542-8 603-047-00-0	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 <u>(Respiratory system)</u> specific concentration limit STOT SE 3; H335 ≥ 5 % STOT SE 3; H335 ≥ 5 %	≥ 0.1 - < 1
Alcohols, C11-14-iso-, C13-rich	68526-86-3 271-235-6 01-2119454259-32	Aquatic Acute 1; H400 <u>M-Factor (Acute aquatic toxicity): 1</u> M-Factor (Chronic aquatic toxicity): 1	≥ 0.25 - < 1
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 <u>specific concentration limit</u> Skin Sens. 1; H317 ≥ 0.05 % Skin Sens. 1; H317 ≥ 0.05 %	≥ 0.0025 - < 0.025
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <u>M-Factor (Acute aquatic toxicity): 100</u> M-Factor (Chronic aquatic toxicity): 100	≥ 0.0002 - < 0.0015

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		specific concentration limit Skin Corr. 1B; H314 >= 0.6 % Skin Irrit. 2; H315 0.06 - < 0.6 % Eye Irrit. 2; H319 0.06 - < 0.6 % Skin Sens. 1; H317 >= 0.0015 % Eye Dam. 1; H318 >= 0.6 % Skin Corr. 1C; H314 >= 0.6 % Skin Irrit. 2; H315 0.06 - < 0.6 % STOT RE 2; H319 0.06 - < 0.6 % Skin Sens. 1A; H317 >= 0.0015 % Eye Dam. 1; H318 >= 0.6 %	
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For explanation of abbreviations see section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Discription of first aid measures

General advice:

Move the victim to fresh air.  
 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.  
 Remove contact lenses.  
 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.  
 If symptoms persist, call a physician.

#### 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

This information is not available..

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media:

Suitable extinction agents:

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Dry sand  
ABC powder  
Foam

Unsuitable extinguishing media:

Water  
Carbon dioxide (CO<sub>2</sub>)

**5.2. Special hazards arising from the substance or mixture**

This information is not available

**5.3. Advice for firefighters**

Special protective equipment for firefighting:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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. Environment precautions**

Environmental precautions

The product should not be allowed to enter drains, water courses or the soil

**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).

Wipe up with absorbent material (e.g. cloth, fleece).

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:

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

General industrial hygiene practice.

**7.2. Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers:

Earthing of containers and apparatuses is essential.

Take measures to prevent the build up of electrostatic charge.

Use explosion-proof equipment. Store in original container.

Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage:

Do not store near acids.

Do not store together with oxidizing and self-igniting products.

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Keep away from oxidizing agents and strongly acid or alkaline materials.  
 Keep away from oxidizing agents, strongly alkaline and strongly acid materials  
 in order to avoid exothermic reactions.

No materials to be especially mentioned

Further information on storage conditions:

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 (stabilized)	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		<p>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-3 8-hour TWA of inhalable dust or 4 mg.m-3 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.</p>		

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		TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
Further information	<p>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-3 8-hour TWA of inhalable dust or 4 mg.m-3 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.</p>			
2-dimethylaminoethanol	108-01-0	TWA	2 ppm 7.4 mg/m <sup>3</sup>	GB EH40
		STEL	6 ppm 22 mg/m <sup>3</sup>	GB EH40

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
Phosphoric acid, C11- 14-isoalkyl esters, C13-rich	Workers	Inhalation	long term systemic effects	34.94 mg/m <sup>3</sup>
	Workers	Skin contact	long term systemic effects	100.13 mg/kg

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	Consumers	Inhalation	long term systemic effects	10.43 mg/m <sup>3</sup>
	Consumers	Skin contact	long term systemic effects	60.08 mg/kg
	Consumers	Ingestion	long term systemic effects	6.01 mg/kg
2,2',2"-nitrilotriethanol	Workers	Inhalation	long term local effects	1 mg/m <sup>3</sup>
	Workers	Skin contact	long term systemic effects	7.5 mg/kg
	Workers	Skin contact	long term local effects	0.14 mg/cm <sup>2</sup>
	Consumers	Inhalation	long term local effects	0.4 mg/m <sup>3</sup>
	Consumers	Ingestion	long term systemic effects	3.3 mg/kg
	Consumers	Skin contact	long term systemic effects	2.66 mg/kg
	Consumers	Skin contact	long term systemic effects	0.07 mg/m <sup>2</sup>
2- dimethylaminoethanol	Workers	Inhalation	long term – systemic and local effects	1.76 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	5.28 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	13.53 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0.25 mg/kg
	Workers	Skin contact	Acute systemic effects	1.2 mg/kg
	Workers	Skin contact	Acute local effects	0.080 mg/cm <sup>2</sup>
	Consumers	Inhalation	Long-term systemic effects	0.43 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	0.126 mg/kg
Alcohols, C11-14-iso-, C13-rich	Workers	Skin contact	Long-term systemic effects	416.67 mg/kg
	Workers	Inhalation	Long-term systemic effects	293.86 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	250 mg/kg
	Consumers	Inhalation	Long-term systemic effects	89.96 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	25 mg/kg

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1,2-benzisothiazol3(2H)-one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0.345 mg/kg
reaction mass of 5- chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2Hisothiazol-3-one (3:1)	Workers	Inhalation	Long-term local effects	0.02 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	0.04 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0.02 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	0.04 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term local effects	0.090 mg/kg
	Consumers	Ingestion	Acute local effects	0.11 mg/kg

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
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	Fresh water	0.00631 mg/l
	Fresh water sediment	0.113 mg/kg
	Intermittent water release	0.0631 mg/l
	Marine water	0.000631 mg/l
	Marine sediment	0.0113 mg/kg
	STP	10 mg/l
	Soil	0.0188 mg/kg
2,2',2''-nitrilotri-ethanol	Soil	0.151 mg/kg
	Fresh water	0.32 mg/l
	Fresh water sediment	1.7 mg/kg
	clarification plant	10 mg/l
	Marine water	0.032 mg/l
	Marine sediment	0.17 mg/kg



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2-dimethylaminoethanol	Fresh water	0.0661 mg/l
	Marine water	0.004 mg/l
	Intermittent Release	661 µg/l
	STP	10 mg/l
	Fresh water sediment	0.246 mg/kg dry weight (d.w.)
	Soil	0.0177 mg/kg
	Marine sediment	0.015 mg/kg dry weight (d.w.)
Alcohols, C11-14-iso-, C13-rich	STP	105.3 mg/l
	Fresh water sediment	115.6 mg/kg
	Soil	93.7 mg/kg
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l
	Marine water	0.000403 mg/l
	STP	0.00103 mg/l
	Intermittent water release	0.0011 mg/l
	Intermittent Release	0.00011 mg/l
	Fresh water sediment	0.0499 mg/kg
	Marine sediment	0.00499 mg/kg
	Soil	3 mg/kg
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Fresh water	0.00339 mg/l
	Intermittent water release	0.00339 mg/l
	Marine water	0.00339 mg/l
	Intermittent Release	0.00339 mg/l
	STP	0.23 mg/l
	Soil	0.0471 mg/kg
	Fresh water sediment	0.027 mg/kg
	Marine sediment	0.027 mg/kg
	Soil	0.01 mg/kg

### 8.2. Exposure controls

#### Personal protective equipment

Eye/face protection:

Goggles

Safety glasses

Hand protection:

Material: Solvent resistant gloves (butyl-rubber)

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**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). 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:

Protective suit

Respiratory protection:

Use suitable breathing protection if workplace concentration requires.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Appearance

Appearance:	liquid
Colour:	silver
Odour:	characteristic
Odour Threshold:	no data available
Freezing point:	no data available
Boiling point/boiling range:	no data available
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 :	6 – 8
	Concentration: 100 %
Viscosity, kinematic :	No data available
Water solubility :	No data available
Solubility in other solvents :	No data available
Partition coefficient: noctanol/water :	No data available
Vapour pressure:	No data available
Relative density:	No data available
Density:	No data available
Relative vapour density :	No data available
Particle Size Distribution :	No data available

#### 9.2. Other information

No data available

### 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.

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Stable under recommended storage conditions.  
No hazards to be specially mentioned.

**10.4. 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.

**SECTION 11: TOXICOLOGIC INFORMATION****11.1. Acute Toxicity**

Not classified based on available information.

**Product:**

Acute inhalation toxicit:                      Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

**Components:****aluminium powder (stabilised):**

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

**2-dimethylaminoethanol:**

Acute oral toxicity:                              Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicit:                      Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity                            Assessment: The component/mixture is minimally toxic after single contact with skin.

**1,2-benzisothiazol-3(2H)-one:**

Acute oral toxicity:                              Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicit:                      LC50 (Rat): 0.4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is highly toxic after short term inhalation.

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Acute oral toxicity:                              Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicit:                      Assessment: The component/mixture is highly toxic after short term inhalation.

Acute dermal toxicity                            Assessment: The component/mixture is highly toxic after single contact with skin.

**Skin corrosion/irritation**

Not classified based on available information.

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**Product:**

Result: No skin irritation

Remarks: Based on available data, the classification criteria are not met.

**Components:**

**Phosphoric acid, C11-14-isoalkyl esters, C13-rich:**

Result: Skin irritation

**2-dimethylaminoethanol:**

Result: Corrosive after 3 minutes to 1 hour of exposure

**1,2-benzisothiazol-3(2H)-one:**

Result: Skin irritation

**Serious eye damage/eye irritation:**

Not classified based on available information.

**Product:**

Result: No eye irritation

Remarks: Based on available data, the classification criteria are not met.

**Components:**

**Phosphoric acid, C11-14-isoalkyl esters, C13-rich:**

Result: Corrosive

**2-dimethylaminoethanol:**

Result: Corrosive

**1,2-benzisothiazol-3(2H)-one:**

Result: Corrosive

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Result: Corrosive

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**1,2-benzisothiazol-3(2H)-one:**

Result: May cause sensitisation by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT – single exposure**

Not classified based on available information.

**Components:**

**2-dimethylaminoethanol:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT – repeated exposure**

Not classified based on available information.

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### Aspiration toxicity

Not classified based on available information.

## 11.2. Information on other hazards

### Further Information

#### Product:

Result: No data available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity:

#### Product:

#### **Ecotoxicology Assessment:**

Acute aquatic toxicity: This product has no known ecotoxicological effects.

Chronic aquatic toxicity: This product has no known ecotoxicological effects.

#### Components:

#### **Phosphoric acid, C11-14-isoalkyl esters, C13-rich:**

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 6.31 mg/l  
Exposure time: 48 h

Toxicity to algae: EC50 (algae): 150 mg/l  
Exposure time: 72 h

#### **2-dimethylaminoethanol:**

Toxicity to daphnia and other aquatic invertebrates: (Daphnia (water flea)): 98.77 mg/l

Toxicity to algae/aquatic plants: (Chlorella pyrenoidosa (algae)): 35 mg/l  
Exposure time: 72 h

#### **Alcohols, C11-14-iso-, C13-rich:**

M-Factor (Short-term (acute) aquatic hazard) : 1

M-Factor (Long-term (chronic) aquatic hazard) : 1

#### **Ecotoxicology Assessment:**

Acute aquatic toxicity: Very toxic to aquatic life.

#### **1,2-benzisothiazol-3(2H)-one:**

#### **Ecotoxicology Assessment:**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects

#### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

M-Factor (Short-term (acute) aquatic hazard): 100

M-Factor (Long-term (chronic) aquatic hazard): 100

#### **Ecotoxicology Assessment:**

Acute aquatic toxicity : Very toxic to aquatic life.  
hazard:

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

### 12.2. Persistence and degradability

No data available.

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### 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.

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

#### Product:

Additional ecological information No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

European Waste Catalogue: 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances.

### 13.1. Waste treatment methods

#### Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

ADR: Not regulated as a dangerous good  
IMDG: Not regulated as a dangerous good  
IATA: UN 9999  
Not permitted for transport

### 14.2 UN proper shipping name

ADR: Not regulated as a dangerous good  
IMDG: Not regulated as a dangerous good  
IATA: Not permitted for transport

### 14.3 Transport hazard class(es)

ADR: Not regulated as a dangerous good  
IMDG: Not regulated as a dangerous good  
IATA: Not permitted for transport

### 14.4 Packing group

ADR: Not regulated as a dangerous good  
IMDG: Not regulated as a dangerous good  
IATA (Cargo): Not permitted for transport  
IATA (Passenger): Not permitted for transport

### 14.5 Environmental hazards

ADR: Not regulated as a dangerous good  
IMDG: Not regulated as a dangerous good

### 14.6. Special precautions for user

Remarks: Due to the risk of hydrogen development we recommend to refrain from airfreighting this/these product(s).  
Not classified as dangerous in the meaning of transport regulations.

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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 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.

## 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, preparations and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

aluminium powder (stabilised)  
(Number on list 40)

Phosphoric acid, C11-14-isoalkyl esters, C13-rich (Number on list 3)

2-dimethylaminoethanol (Number on list 40, 3)

Alcohols, C11-14-iso-, C13-rich  
(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

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements:

H226	Flammable solid liquid and vapour.
H228	Flammable solid
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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### Full text of other abbreviations

Acute Tox. :	Acute toxicity
Aquatic Acute :	Short-term (acute) aquatic hazard
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Eye Dam. :	Serious eye damage
Flam. Liq. :	Flammable liquids
Flam. Sol. :	Flammable solids
Skin Corr. :	Skin corrosion
Skin Irrit. :	Skin irritation
Skin Sens. :	Skin sensitisation
STOT SE :	Specific target organ toxicity - single exposure
GB EH40:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL :	Short-term exposure limit (15-minute reference period)

### Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
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
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
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



# SAFETY DATA SHEET

in acc. with Regulation (EU) No. 2015/830



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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
TCSI	Taiwan Chemical Substance Inventory
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative

Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg"). Decimal places are identified with a comma (for example, "1,35 g/cm<sup>3</sup>" means "one point three five g/cm<sup>3</sup>").

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