

### SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier

**Product identifier** : CLEAR/AL

**Product name** : CLEAR #1 UV RESISTANT CLEARCOAT AEROSOL

: 19 June 2025

**Product type** : Aerosol. Other means of : Not available.

identification

Date of issue/ Date of

revision

Version : 2

Date of previous issue 11 April 2023

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

**Identified uses** : Coating component.

Uses advised against : Not for sale to or use by consumers.

1.3 Details of the supplier of the safety data sheet

**U-POL Limited Denington Road** Wellingborough, Northamptonshire, NN8 2QH +44 (0) 1933 230310 technicalsupport@u-pol.com

e-mail address of person : sds-competence@axalta.com

responsible for this SDS

**U-POL Netherlands** B.V. Hoorgoorddreef 15 Amsterdam, Netherlands 1101BA +31 20 240 2216 technicalsupport@u-pol.com

#### 1.4 Emergency telephone number

**Supplier** 

Telephone number : +(44)-870-8200418

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture Classification according to UK CLP/GHS

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 **STOT SE 3, H336** 

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 1/24

### SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms









Signal word : Danger
Contains : butanone

cyclohexanone n-butyl acetate 4-methylpentan-2-one

**Hazard statements** : H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if

heated.

H315 - Causes skin irritation. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer.

**Precautionary statements** 

**Prevention**: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

**Response** : P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

Storage : P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F.

**Disposal** : Not applicable.

Supplemental label

elements

: EUH208 - Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an

allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do : No not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Date of issue/Date of revision : 19 June Date of previous issue :11 April 2023 Version : 2 2/24

# **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Туре
dimethyl ether	REACH #: 01-2119472128-37 EC: 204-065-8 CAS: 115-10-6 Index: 603-019-00-8	≥25 - ≤50	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	[1] [2]
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
cyclohexanone	REACH #: 01-2119453616-35 EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	≥10 - ≤17	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	[1] [2]
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40 EC: 905-588-0	≤2.3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1]
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	<0.1	Skin Sens. 1A, H317 Repr. 2, H361 (oral) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a physical, health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 23/24

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

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

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 24/242025

### **SECTION 4: First aid measures**

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

Unsuitable extinguishing

media

: Do not use water jet.

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

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion products

Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

 Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

Appropriate breathing apparatus may be required.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

#### 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 25/24

# **SECTION 7: Handling and storage**

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

#### Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Seveso Directive - Reporting thresholds

#### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
P3a	150 tonnes	500 tonnes

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
dimethyl ether	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	STEL 15 minutes: 958 mg/m³.
	STEL 15 minutes: 500 ppm.
	TWA 8 hours: 400 ppm.
	TWA 8 hours: 766 mg/m³.
butanone	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 899 mg/m³.
	STEL 15 minutes: 300 ppm.
	TWA 8 hours: 600 mg/m³.
	TWA 8 hours: 200 ppm.
cyclohexanone	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 20 ppm.
	TWA 8 hours: 10 ppm.

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 6/24

# **SECTION 8: Exposure controls/personal protection**

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	STEL 15 minutes: 82 mg/m³.
	TWA 8 hours: 41 mg/m³.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	STEL 15 minutes: 966 mg/m³.
	STEL 15 minutes: 200 ppm.
	TWA 8 hours: 724 mg/m³.
	TWA 8 hours: 150 ppm.
4-methylpentan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 416 mg/m³.
	STEL 15 minutes: 100 ppm.
	TWA 8 hours: 208 mg/m³.
	TWA 8 hours: 50 ppm.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
butanone	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 70 µmol/l, butan-2-one [in urine]. Sampling time: post shift.
cyclohexanone	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 2 mmol/mol creatinine, cyclohexanol [in urine]. Sampling time: post shift.
4-methylpentan-2-one	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) BGV: 20 μmol/l, 4-methylpentan-2-one [in urine]. Sampling time: post shift.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

<u>DNELs/DMELs</u>	
Product/ingredient name	Result
dimethyl ether	<b>DNEL - General population - Long term - Inhalation</b> 471 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 1894 mg/m³ Effects: Systemic
butanone	DNEL - Workers - Long term - Inhalation 200.539 ppm Effects: Systemic
	DNEL - General population - Long term - Oral 31 mg/kg bw/day Effects: Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 106 mg/m³ <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Dermal</b> 412 mg/kg bw/day <u>Effects</u> : Systemic

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 7/24 2025

cyclohexanone

# SECTION 8: Exposure controls/personal protection

DNEL - General population - Short term - Inhalation

450 mg/m³
<u>Effects</u>: Systemic

**DNEL - Workers - Long term - Inhalation** 

600 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

900 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

1161 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

9.8 ppm

Effects: Systemic

DNEL - General population - Short term - Dermal

1 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - General population - Long term - Dermal** 

1 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

1.5 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Oral

1.5 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

2.55 mg/m³ Effects: Systemic

**DNEL - Workers - Short term - Dermal** 

4 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

4 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation

5 mg/m<sup>3</sup>

Effects: Systemic

DNEL - Workers - Long term - Inhalation

10 mg/m³ Effects: Local

**DNEL - Workers - Long term - Inhalation** 

10 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

20 mg/m³ Effects: Local

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 8/24

# SECTION 8: Exposure controls/personal protection

**DNEL - Workers - Short term - Inhalation** 

20 mg/m<sup>3</sup>

Effects: Systemic

n-butyl acetate DNEL - Workers - Short term - Dermal

11 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Oral

2 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Short term - Oral

2 mg/kg bw/day Effects: Systemic

**DNEL - General population - Long term - Dermal** 

3.4 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Dermal

6 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Short term - Dermal** 

11 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

12 mg/m<sup>3</sup>

Effects: Systemic

DNEL - General population - Long term - Inhalation

35.7 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

300 mg/m³ Effects: Local

**DNEL - Workers - Short term - Inhalation** 

600 mg/m³ Effects: Local

**DNEL - Workers - Short term - Inhalation** 

600 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

300 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

11.8 mg/kg bw/day Effects: Systemic

4-methylpentan-2-one

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 9/24

# SECTION 8: Exposure controls/personal protection

**DNEL - Workers - Long term - Inhalation** 

83 mg/m³ Effects: Local

**DNEL - Workers - Long term - Inhalation** 

83 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

208 mg/m³ Effects: Local

**DNEL - Workers - Short term - Inhalation** 

208 mg/m<sup>3</sup>

Effects: Systemic

DNEL - General population - Long term - Oral

4.2 mg/kg bw/day Effects: Systemic

Reaction mass of ethylbenzene and xylene

**DNEL - Workers - Long term - Dermal** 

212 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

221 mg/m³ Effects: Systemic

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

**DNEL - Workers - Long term - Inhalation** 

3.53 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

2 mg/kg

Effects: Systemic

DNEL - General population - Long term - Oral

0.18 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation

0.31 mg/m³ Effects: Systemic

**DNEL - General population - Long term - Dermal** 

0.9 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

1.27 mg/m³ Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

1.8 mg/kg bw/day Effects: Systemic

**PNECs** 

Product/ingredient name

Result

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 210/242025

# **SECTION 8: Exposure controls/personal protection**

butanone Fresh water

55.8 mg/l

**Sewage Treatment Plant** 

709 mg/l

Fresh water sediment

284.7 mg/kg

Marine water sediment

284.7 mg/kg

Marine water

55.8 mg/l

**Sewage Treatment Plant** 

22.5 mg/kg

cyclohexanone Fresh water

0.0329 mg/l

Marine water

0.0329 mg/l

n-butyl acetate Soil

0.09 mg/kg

Fresh water

0.18 mg/l

**Sewage Treatment Plant** 

35.6 mg/l

Marine water

0.018 mg/l

Fresh water sediment

0.981 mg/kg

Marine water sediment

0.098 mg/kg

4-methylpentan-2-one Marine water

0.06 mg/l

Fresh water

0.6 mg/l

**Sediment** 

8.27 mg/kg

Reaction mass of ethylbenzene and xylene Fresh water 0.327 mg/l

3

Marine water 0.327 mg/l

**Sewage Treatment Plant** 

6.58 mg/l

Fresh water sediment

12.46 mg/kg dwt

Marine water sediment

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 11/24 2025

# **SECTION 8: Exposure controls/personal protection**

12.46 mg/kg dwt

Soil

2.31 mg/kg

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Fresh water 0.0022 mg/l

Marine water 0.00022 mg/l

Secondary Poisoning

0.009 mg/l

Fresh water sediment

1.05 mg/kg

Marine water sediment

0.11 mg/kg

Soil

0.21 mg/kg

**Sewage Treatment Plant** 

1 mg/l

#### 8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Use safety eyewear designed to protect against splash of liquids.

#### Skin protection

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

: Duration / breakthrough time: <1 hour,

Glove material: NBR, nitrile rubber, material thickness as splash protection: at least

0.2 mm, (EN374)

Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least

0.5 mm, (EN374)

The recommendation for the type or types of glove to use when handling this

product is based on information from the following source:

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 12/24

# SECTION 8: Exposure controls/personal protection

Expert judgment

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of

use, as included in the user's risk assessment.

Personnel should wear antistatic clothing made of natural fibres or of high-**Body protection** 

temperature-resistant synthetic fibres.

Other skin protection Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection : If workers are exposed to concentrations above the exposure limit, they must use

appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable

respiratory protective equipment should be used.

**Environmental exposure** 

controls

Do not allow to enter drains or watercourses.

# SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.

Colour : Transparent. Odour : Characteristic. **Odour threshold** : Not available.

Melting point/freezing point : Technically not possible to measure

Initial boiling point and

boiling range

: Not applicable.

Flammability (solid, gas) Upper/lower flammability or

explosive limits

: Not available. : Lower: 1% Upper: 26.2%

Not available.

Flash point : Closed cup: -41°C (-41.8°F)

350°C (662°F) **Auto-ignition temperature Decomposition temperature** : Not applicable. pН : Not applicable.

: Dynamic (room temperature): Not available. **Viscosity** 

Kinematic (room temperature): Not available.

Kinematic (40°C): Not available.

Solubility in water : Not available.

Miscible with water : Yes.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : 207.4 kPa (1555.8 mm Hg)

Relative density : Not available. : 0.798 g/cm<sup>3</sup> **Density** Vapour density : Not available. **Explosive properties** : Not available. Oxidising properties : Not available.

Date of issue/Date of revision : 19 June Version : 2 Date of previous issue :11 April 2023 13/24

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

Weight volatiles : 83.5 % (w/w)

**VOC content** : 83.4 % (w/w) (2010/75/EU)

9.2 Other information

9.2.1 Information with regard to physical hazard classes

**Heat of combustion** : 26.29 kJ/g

**Aerosol product** 

Type of aerosol : Spray

Further information Not available.

9.2.2 Other safety characteristics

Miscible with water : Yes.

Further information Not available.

room temperature (=20°C)

# **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous

decomposition products

: Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Product/ingredient name

dimethyl ether Rat - Oral - LD50 >99999 mg/kg

Rat - Dermal - LD50

>99999 mg/kg

Result

Rat - Inhalation - LC50 Vapour

309 g/m³ [4 hours]

Rat - Inhalation - LC50 Gas.

164000 ppm [4 hours]

Toxic effects: Behavioral - Ataxia Behavioral - Coma

butanone Rabbit - Dermal - LD50

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 214/242025

# **SECTION 11: Toxicological information**

6480 mg/kg

**Rat - Oral - LD50** 2737 mg/kg

cyclohexanone Rat - Oral - LD50

1800 mg/kg

Rat - Inhalation - LC50 Gas.

8000 ppm [4 hours]

n-butyl acetate Rat - Oral - LD50

10768 mg/kg

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver -

Other changes

Rabbit - Dermal - LD50

>17600 mg/kg

Rat - Inhalation - LC50 Vapour

21.1 mg/l [4 hours]

4-methylpentan-2-one Rat - Oral - LD50

2080 mg/kg

Rat - Inhalation - LC50 Vapour

16.4 mg/l [4 hours]

Reaction mass of ethylbenzene and xylene Rat - Oral - LD50

3523 to 4000 mg/kg

Rabbit - Dermal - LD50

121236 mg/kg

Rat - Inhalation - LC50 Vapour 6350 to 6700 ppm [4 hours]

Reaction mass of bis(1,2,2,6,6-pentamethyl-

4-piperidyl) sebacate and methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Rat - Male, Female - Oral - LD50

3230 mg/kg

OECD [Acute Oral toxicity - Acute Toxic Class Method]

Rat - Male, Female - Dermal - LD50

>3170 mg/kg

**OECD** [Acute Dermal Toxicity]

Conclusion/Summary [Product] : Not available.

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	17996.4	9686.6	79984.0	176.4	N/A
dimethyl ether	N/A	N/A	164000	309	N/A
butanone	2737	6480	N/A	N/A	N/A
cyclohexanone	1800	1100	8000	N/A	N/A
n-butyl acetate	10768	N/A	N/A	21.1	N/A
4-methylpentan-2-one	2080	N/A	N/A	11	N/A
Reaction mass of ethylbenzene and xylene	N/A	1100	N/A	11	N/A
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl	3230	N/A	N/A	N/A	N/A

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 215/24

# SECTION 11: Toxicological information

1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Skin corrosion/irritation

Product/ingredient name Result

butanone Rabbit - Skin - Mild irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 14 mg

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 402 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Human - Skin - Mild irritant cyclohexanone

> Duration of treatment/exposure: 48 hours Amount/concentration applied: 50 %

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Rabbit - Skin - Irritant

OECD [Acute Dermal Irritation/Corrosion]

Rabbit - Skin - Mild irritant 4-methylpentan-2-one

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name Result

cyclohexanone Rabbit - Eyes - Severe irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 250 ug

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 20 mg

4-methylpentan-2-one Rabbit - Eyes - Moderate irritant

> Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 uL

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 40 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Date of issue/Date of revision Version :2 : 19 June Date of previous issue :11 April 2023 16/24

# **SECTION 11: Toxicological information**

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

**Conclusion/Summary [Product]** : Not available.

#### Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

#### Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

#### Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

#### Specific target organ toxicity (single exposure)

Product/ingredient name Result

butanone STOT SE 3, H336 (Narcotic effects)

cyclohexanone STOT SE 3, H335 (Respiratory tract irritation)

n-butyl acetate STOT SE 3, H336 (Narcotic effects) 4-methylpentan-2-one STOT SE 3, H336 (Narcotic effects)

Reaction mass of ethylbenzene and xylene STOT SE 3, H335 (Respiratory tract irritation)

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

Reaction mass of ethylbenzene and xylene STOT RE 2, H373

**Aspiration hazard** 

Product/ingredient name Result

Reaction mass of ethylbenzene and xylene ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation.

**Ingestion**: Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 17/24

# **SECTION 11: Toxicological information**

**Inhalation**: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary [Product]**: Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of

Result

exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

#### Other information

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name butanone

Acute - EC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Larvae

Age: <24 hours 5091 mg/l [48 hours] Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 31 days; <u>Size</u>: 22 mm; <u>Weight</u>: 0.167 g

3220 mg/l [96 hours] Effect: Mortality

Acute - EC50 - Marine water

Algae - Diatom - Skeletonema costatum

>500 mg/l [96 hours] Effect: Population

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 218/24

# **SECTION 12: Ecological information**

cyclohexanone

#### Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 30 days; <u>Size</u>: 20.2 mm; <u>Weight</u>: 0.127 g

527 mg/l [96 hours] Effect: Mortality

#### **Chronic - EC10**

Algae - Green algae - Chlamydomonas reinhardtii -

Exponential growth phase

Age: 7 days

3.56 mg/l [72 hours] Effect: Population

#### Acute - EC50

Algae - Green algae - Chlamydomonas reinhardtii -

Exponential growth phase

Age: 7 days

32.9 mg/l [72 hours] Effect: Population

n-butyl acetate

#### Acute - LC50 - Marine water

Fish - Inland silverside - Menidia beryllina

185 ppm [96 hours] Effect: Mortality

#### 4-methylpentan-2-one

#### Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* Age: 29 days; <u>Size</u>: 21 mm; <u>Weight</u>: 0.141 g

505 mg/l [96 hours] Effect: Mortality

#### **Chronic - NOEC - Fresh water**

Daphnia - Water flea - Daphnia magna

78 mg/l [21 days] Effect: Behavior

#### **Chronic - NOEC - Fresh water**

Fish - Fathead minnow - Pimephales promelas - Embryo

Age: <24 hours 168 mg/l [33 days] Effect: Mortality

#### Reaction mass of ethylbenzene and xylene

#### Acute - LC50

**OECD 203** 

Fish - Trout - Oncorhynchus mykiss

2.6 mg/l [96 hours]

#### Acute - LC50

OECD 202

Daphnia - Daphnia - Daphnia magna

1 mg/l [24 hours]

### Acute - EC50

**OECD 201** 

Algae - Algae - Selenastrum capricornutum

2.2 mg/l [73 hours]

### Chronic - NOEC

OECD 301F

Micro-organism - Activated sludge - Activated sludge

16 mg/l [28 days]

### Reaction mass of bis(1,2,2,6,6-pentamethyl-

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 19/24

# **SECTION 12: Ecological information**

4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

OECD 203, semistatic Fish - *Brachydanio rerio* 0.9 mg/l [96 hours]

**Chronic - NOEC - Fresh water** 

OECD [Daphnia Magna Reproduction Test]

Daphnia

1 mg/l [21 days]

Acute - EC50 - Fresh water

OECD [Alga, Growth Inhibition Test]

Algae

1.68 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.

### 12.2 Persistence and degradability

Not available.

**Conclusion/Summary [Product]**: Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dimethyl ether	0.07	-	Low
butanone	0.3	-	Low
cyclohexanone	0.86	-	Low
n-butyl acetate	2.3	-	Low
4-methylpentan-2-one	1.9	-	Low
Reaction mass of ethylbenzene and xylene	3.16	-	Low

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	νP	vB
dimethyl ether	No	N/A	N/A	No	N/A	N/A	N/A
butanone	No	N/A	N/A	No	N/A	N/A	N/A
cyclohexanone	No	N/A	N/A	No	N/A	N/A	N/A
n-butyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
4-methylpentan-2-one	No	N/A	N/A	No	N/A	N/A	N/A
Reaction mass of ethylbenzene and xylene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	N/A	N/A	N/A	Yes	N/A	N/A	N/A

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 220/24

# **SECTION 12: Ecological information**

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

<u>Packaging</u>

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	Waste catalogue				
	15 01 10*	packaging containing residues of or contaminated by hazardous substances			

**Special precautions** 

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1950	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2	2	2.1	2.1
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

#### **Additional information**

ADR/RID : <u>Tunnel code</u> (D)

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an assident or apillage.

the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 221/24

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

#### Annex XIV - List of substances subject to authorisation

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

#### Category

P3a

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes

#### **International regulations**

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods

Date of issue/Date of revision: 19 JuneDate of previous issue: 11 April 2023Version: 222/24

### **SECTION 16: Other information**

by Rail

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
Aerosol 1, H222, H229	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H336	Calculation method

### Full text of abbreviated H statements

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or 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.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 1	AEROSOLS - Category 1
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Version : 2

Date of previous issue : 4/11/2023

Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 23/24 2025

### **SECTION 16: Other information**

#### Notice to reader

This product is intended for industrial use only.

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Date of issue/Date of revision : 19 June Date of previous issue : 11 April 2023 Version : 2 24/24