



# 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** : 4530S  
**Product name** : Centari® Mastertint® Flop Control Agent  
**Product type** : Liquid.  
**Other means of identification** : 1250073590; 1250091874; 6922978600270  
**Date of issue** : 14 January 2024  
**Version** : 1.05  
**Date of previous issue** : 29 October 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

Axalta Coating Systems Germany GmbH & Co. KG  
Christbusch 25  
DE 42285 Wuppertal  
+49 (0)202 529-0

**e-mail address of person responsible for this SDS** : sds-competence@axalta.com

Axalta Coating Systems UK Ltd.  
Unit 1, Quadrant Park, Mundells  
GB Welwyn Garden City, Hertfordshire, AL7 1FS  
+44 (0)1707 518 000

### 1.4 Emergency telephone number

#### Supplier

**Telephone number** : +(44)-870-8200418  
**Hours of operation** :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to UK CLP/GHS

Flam. Liq. 3, H226  
Skin Irrit. 2, H315  
Eye Dam. 1, H318  
STOT SE 3, H335  
STOT SE 3, H336  
STOT RE 1, H372  
Aquatic Chronic 3, H412

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

## 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** :

Reaction mass of ethylbenzene and xylene  
n-butyl acetate  
2-methylpropan-1-ol  
Naphtha (petroleum), hydrodesulfurized heavy

**Hazard statements** :

H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** :

P280 - Wear protective gloves. Wear eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 - Do not breathe vapour.  
P264 - Wash hands thoroughly after handling.

**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** :

Not applicable.

**Disposal** :

Not applicable.

**Supplemental label elements** :

UH208 - Contains Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde, methyl methacrylate, n-butyl methacrylate and 2-hydroxyethyl acrylate. 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 not result in classification** :

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name   | Identifiers   | %         | Classification   | Type    |
|---|---|-----------|--|---------|
| Reaction mass of ethylbenzene and xylene  | REACH #:<br>01-2119539452-40<br>EC: 905-588-0   | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412  | [1]     |
| n-butyl acetate   | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4                        | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066  | [1] [2] |
| 2-methylpropan-1-ol   | REACH #:<br>01-2119484609-23<br>EC: 201-148-0<br>CAS: 78-83-1                         | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336  | [1] [2] |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)   | REACH #:<br>01-2119458049-33<br>EC: 919-446-0<br>CAS: 64742-82-1                      | ≥10 - <25 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>STOT RE 1, H372<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066   | [1]     |
| Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde methyl methacrylate | REACH #:<br>01-2120771590-53<br>EC: 279-510-2<br>CAS: 80584-99-2                      | <1        | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412   | [1]     |
| n-butyl methacrylate  | REACH #:<br>01-2119452498-28<br>EC: 201-297-1<br>CAS: 80-62-6                         | <1        | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335   | [1] [2] |
| n-butyl methacrylate  | REACH #:<br>01-2119486394-28<br>EC: 202-615-1<br>CAS: 97-88-1                         | <1        | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>STOT SE 3, H335  | [1]     |
| 2-hydroxyethyl acrylate   | REACH #:<br>01-2119459345-34<br>EC: 212-454-9<br>CAS: 818-61-1<br>Index: 607-072-00-8 | <0.2      | Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 3, H412<br><b>See Section 16 for the full text of the H statements declared above.</b> | [1]     |

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.

## 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. Flush contaminated skin with plenty of 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

## 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

## 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

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P5c      | 5000 tonne                      | 50000 tonne             |

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values  |
|-------------------------|--|
| n-butyl acetate         | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 966 mg/m <sup>3</sup> 15 minutes.<br>STEL: 200 ppm 15 minutes.<br>TWA: 724 mg/m <sup>3</sup> 8 hours.<br>TWA: 150 ppm 8 hours. |
| 2-methylpropan-1-ol     | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 231 mg/m <sup>3</sup> 15 minutes.<br>STEL: 75 ppm 15 minutes.<br>TWA: 154 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.   |
| methyl methacrylate     | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 416 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 208 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.  |

## SECTION 8: Exposure controls/personal protection

### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

| Product/ingredient name   | Type  | Exposure              | Value                     | Population             | Effects  |          |
|---|---|-----------------------|---------------------------|------------------------|----------|----------|
| Reaction mass of ethylbenzene and xylene                                | DNEL  | Long term Dermal      | 212 mg/kg bw/day          | Workers                | Systemic |          |
|   | DNEL  | Long term Inhalation  | 221 mg/m <sup>3</sup>     | Workers                | Systemic |          |
| n-butyl acetate   | DNEL  | Short term Dermal     | 11 mg/kg bw/day           | Workers                | Systemic |          |
|   | DNEL  | Short term Dermal     | 11 mg/kg bw/day           | Workers                | Systemic |          |
|   | DNEL  | Long term Inhalation  | 300 mg/m <sup>3</sup>     | Workers                | Local    |          |
|   | DNEL  | Short term Inhalation | 600 mg/m <sup>3</sup>     | Workers                | Local    |          |
|   | DNEL  | Short term Inhalation | 600 mg/m <sup>3</sup>     | Workers                | Systemic |          |
|   | DNEL  | Long term Dermal      | 7 mg/kg bw/day            | Workers                | Systemic |          |
| 2-methylpropan-1-ol   | DNEL  | Long term Inhalation  | 48 mg/m <sup>3</sup>      | Workers                | Systemic |          |
|   | DNEL  | Long term Inhalation  | 100 ppm                   | Workers                | Systemic |          |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | DNEL  | Long term Inhalation  | 310 mg/m <sup>3</sup>     | Workers                | Local    |          |
|   | DNEL  | Long term Inhalation  | 59.8 ppm                  | Workers                | Systemic |          |
|   | DNEL  | Long term Inhalation  | 44 mg/kg                  | Workers                | Systemic |          |
|   | DNEL  | Long term Inhalation  | 0.41 mg/m <sup>3</sup>    | General population     | Systemic |          |
|   | DNEL  | Long term Inhalation  | 1.9 mg/m <sup>3</sup>     | Workers                | Systemic |          |
|   | DNEL  | Long term Inhalation  | 178.57 mg/m <sup>3</sup>  | General population     | Local    |          |
|   | DNEL  | Short term Inhalation | 640 mg/m <sup>3</sup>     | General population     | Local    |          |
|   | DNEL  | Long term Inhalation  | 837.5 mg/m <sup>3</sup>   | Workers                | Local    |          |
|   | DNEL  | Short term Inhalation | 1066.67 mg/m <sup>3</sup> | Workers                | Local    |          |
|   | DNEL  | Short term Inhalation | 1152 mg/m <sup>3</sup>    | General population     | Systemic |          |
|   | DNEL  | Short term Inhalation | 1286.4 mg/m <sup>3</sup>  | Workers                | Systemic |          |
|   | Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde | DNEL                  | Long term Dermal          | 0.467 mg/kg bw/day     | Workers  | Systemic |
|   |   | DNEL                  | Long term Inhalation      | 1.64 mg/m <sup>3</sup> | Workers  | Systemic |
|   | methyl methacrylate   | DNEL                  | Short term Inhalation     | 416 mg/m <sup>3</sup>  | Workers  | Local    |
| DNEL  |   | Short term Dermal     | 1.5 mg/cm <sup>2</sup>    | Workers                | Local    |          |
| DNEL  |   | Long term Dermal      | 1.5 mg/cm <sup>2</sup>    | Workers                | Local    |          |
|   | DNEL  | Long term Dermal      | 13.67 mg/                 | Workers                | Systemic |          |

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

|                         |      |                      |                                    |                    |          |
|-------------------------|------|----------------------|------------------------------------|--------------------|----------|
| n-butyl methacrylate    | DNEL | Long term Inhalation | kg bw/day<br>208 mg/m <sup>3</sup> | Workers            | Local    |
|                         | DNEL | Long term Inhalation | 348.4 mg/m <sup>3</sup>            | Workers            | Systemic |
|                         | DNEL | Long term Dermal     | 3 mg/kg bw/day                     | General population | Systemic |
|                         | DNEL | Long term Dermal     | 5 mg/kg bw/day                     | Workers            | Systemic |
|                         | DNEL | Long term Inhalation | 66.5 mg/m <sup>3</sup>             | General population | Systemic |
|                         | DNEL | Long term Inhalation | 366.4 mg/m <sup>3</sup>            | General population | Local    |
|                         | DNEL | Long term Inhalation | 409 mg/m <sup>3</sup>              | Workers            | Local    |
|                         | DNEL | Long term Inhalation | 415.9 mg/m <sup>3</sup>            | Workers            | Systemic |
|                         | DNEL | Short term Dermal    | 1 %                                | General population | Local    |
|                         | DNEL | Long term Dermal     | 1 %                                | General population | Local    |
| 2-hydroxyethyl acrylate | DNEL | Short term Dermal    | 1 %                                | Workers            | Local    |
|                         | DNEL | Long term Dermal     | 1 %                                | Workers            | Local    |
|                         | DNEL | Long term Inhalation | 1.2 mg/m <sup>3</sup>              | General population | Local    |
|                         | DNEL | Long term Inhalation | 2.4 mg/m <sup>3</sup>              | Workers            | Local    |

**PNECs**

| Product/ingredient name                  | Compartment Detail     | Value                  | Method Detail  |   |
|--|------------------------|------------------------|----------------|---|
| Reaction mass of ethylbenzene and xylene | Fresh water            | 0.327 mg/l             | -              |   |
|  | Marine water           | 0.327 mg/l             | -              |   |
|  | Sewage Treatment Plant | 6.58 mg/l              | -              |   |
|  | Fresh water sediment   | 12.46 mg/kg dwt        | -              |   |
|  | Marine water sediment  | 12.46 mg/kg dwt        | -              |   |
|  | n-butyl acetate        | Soil                   | 2.31 mg/kg     | - |
|  |                        | 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            | -              |   |
| 2-methylpropan-1-ol                      |                        | Marine water sediment  | 0.098 mg/kg    | - |
|  |                        | Marine water           | 0.04 mg/l      | - |
|  |                        | Fresh water            | 0.4 mg/l       | - |
|  |                        | Fresh water sediment   | 1.56 mg/l      | - |
|  | Marine water sediment  | 0.156 mg/kg            | -              |   |
|  | Soil                   | 0.076 mg/kg            | -              |   |
|  | Sewage Treatment Plant | 10 mg/l                | -              |   |
|  | methyl methacrylate    | Fresh water            | 0.94 mg/l      | - |
|  |                        | Fresh water sediment   | 10.2 mg/kg dwt | - |
|  |                        | Marine water           | 0.094 mg/l     | - |
| Marine water sediment                    |                        | 1.02 mg/kg dwt         | -              |   |
| Soil                                     |                        | 1.48 mg/kg dwt         | -              |   |
| Sewage Treatment Plant                   |                        | 10 mg/l                | -              |   |
| Plant                                    |                        |                        | -              |   |

**8.2 Exposure controls**



## SECTION 8: Exposure controls/personal protection

**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:

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.

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

**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** : Milky.

**Odour** : Not available.

**Odour threshold** : Not available.

**Melting point/freezing point** : Technically not possible to measure

**SECTION 9: Physical and chemical properties**

|   |  |
|---|--|
| <b>Initial boiling point and boiling range</b>      | : 106 to 220°C (222.8 to 428°F)  |
| <b>Flammability (solid, gas)</b>                    | : Not available.   |
| <b>Upper/lower flammability or explosive limits</b> | : Lower: 0.6%<br>Upper: 10.6%  |
| <b>Flash point</b>                                  | : Closed cup: 25°C (77°F)  |
| <b>Auto-ignition temperature</b>                    | : 280°C (536°F)  |
| <b>Decomposition temperature</b>                    | : Not applicable.  |
| <b>pH</b>   | : Not applicable.  |
| <b>Viscosity</b>                                    | : <input checked="" type="checkbox"/> ynamic: 357 mPa·s<br>Kinematic: 369 mm <sup>2</sup> /s |
| <b>Solubility(ies)</b>                              | :  |

| Media      | Result            |
|------------|-------------------|
| cold water | Partially soluble |

|  |  |
|--|--|
| <b>Solubility in water</b>                     | : Not available.   |
| <b>Miscible with water</b>                     | : No.  |
| <b>Partition coefficient: n-octanol/ water</b> | : Not applicable.  |
| <b>Vapour pressure</b>                         | : 0.64 kPa (4.8 mm Hg)                                       |
| <b>Relative density</b>                        | : Not available.   |
| <b>Density</b>                                 | : <input checked="" type="checkbox"/> .968 g/cm <sup>3</sup> |
| <b>Vapour density</b>                          | : Not available.   |
| <b>Explosive properties</b>                    | : Not available.   |
| <b>Oxidising properties</b>                    | : Not available.   |
| <b>Weight volatiles</b>                        | : 55.9 % (w/w)   |
| <b>VOC content</b>                             | : 55.8 % (w/w) (2010/75/EU)                                  |

*room temperature (=20°C)*

**SECTION 10: Stability and reactivity**

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>10.2 Chemical stability</b>                 | : Stable under recommended storage and handling conditions (see Section 7).   |
| <b>10.3 Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products.   |
| <b>10.5 Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.                |
| <b>10.6 Hazardous decomposition products</b>   | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.<br><br>Not applicable |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde, methyl methacrylate, butyl methacrylate, 2-hydroxyethyl acrylate. May produce an allergic reaction.

#### Acute toxicity

| Product/ingredient name                  | Result                 | Species | Dose                    | Exposure |
|--|------------------------|---------|-------------------------|----------|
| Reaction mass of ethylbenzene and xylene | LC50 Inhalation Vapour | Rat     | 6350 to 6700 ppm        | 4 hours  |
|  | LD50 Dermal            | Rabbit  | 121236 mg/kg            | -        |
|  | LD50 Oral              | Rat     | 3523 to 4000 mg/kg      | -        |
| n-butyl acetate                          | LC50 Inhalation Vapour | Rat     | 21.1 mg/l               | 4 hours  |
|  | LD50 Dermal            | Rabbit  | >17600 mg/kg            | -        |
|  | LD50 Oral              | Rat     | 10768 mg/kg             | -        |
| 2-methylpropan-1-ol                      | LD50 Dermal            | Rabbit  | 3400 mg/kg              | -        |
|  | LD50 Oral              | Rat     | 2460 mg/kg              | -        |
|  | LD50 Oral              | Rat     | 2460 mg/kg              | -        |
| methyl methacrylate                      | LC50 Inhalation Vapour | Rat     | 78000 mg/m <sup>3</sup> | 4 hours  |
|  | LD50 Dermal            | Rabbit  | >5 g/kg                 | -        |
|  | LD50 Oral              | Rat     | 7872 mg/kg              | -        |
| n-butyl methacrylate                     | LC50 Inhalation Vapour | Rat     | 29 mg/l                 | 4 hours  |
|  | LD50 Dermal            | Rat     | 17900 mg/kg             | -        |
|  | LD50 Oral              | Rat     | 16 g/kg                 | -        |
| 2-hydroxyethyl acrylate                  | LD50 Dermal            | Rat     | 1001 mg/kg              | -        |
|  | LD50 Oral              | Rat     | 548 mg/kg               | -        |

#### 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                                  | N/A          | 6638.6         | N/A                      | 68.5                        | N/A                                 |
| Reaction mass of ethylbenzene and xylene | N/A          | 1100           | N/A                      | 11                          | N/A                                 |
| n-butyl acetate                          | 10768        | N/A            | N/A                      | 21.1                        | N/A                                 |
| 2-methylpropan-1-ol                      | 2460         | 3400           | N/A                      | N/A                         | N/A                                 |
| methyl methacrylate                      | 7872         | N/A            | N/A                      | 78                          | N/A                                 |
| n-butyl methacrylate                     | 16000        | 17900          | N/A                      | 29                          | N/A                                 |
| 2-hydroxyethyl acrylate                  | 548          | 300            | N/A                      | N/A                         | N/A                                 |

#### Irritation/Corrosion

| Product/ingredient name                         | Result                   | Species | Score | Exposure       | Observation |
|---|--------------------------|---------|-------|----------------|-------------|
| n-butyl methacrylate<br>2-hydroxyethyl acrylate | Skin - Mild irritant     | Rabbit  | -     | 500 uL         | -           |
|   | Skin - Mild irritant     | Rabbit  | -     | 24 hours 10 mg | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 500 mg         | -           |

#### Sensitisation

## SECTION 11: Toxicological information

| Product/ingredient name   | Route of exposure | Species | Result      |
|---|-------------------|---------|-------------|
| Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde | skin              | Mouse   | Sensitising |

### Mutagenicity

### Carcinogenicity

### Reproductive toxicity

### Teratogenicity

### Specific target organ toxicity (single exposure)

| Product/ingredient name   | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| Reaction mass of ethylbenzene and xylene                                | Category 3 | -                 | Respiratory tract irritation |
| n-butyl acetate   | Category 3 | -                 | Narcotic effects             |
| 2-methylpropan-1-ol   | Category 3 | -                 | Respiratory tract irritation |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Category 3 | -                 | Narcotic effects             |
| methyl methacrylate   | Category 3 | -                 | Narcotic effects             |
| n-butyl methacrylate  | Category 3 | -                 | Respiratory tract irritation |
|   |            |                   | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name   | Category   | Route of exposure | Target organs |
|---|------------|-------------------|---------------|
| Reaction mass of ethylbenzene and xylene                                | Category 2 | -                 | -             |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Category 1 | -                 | -             |

### Aspiration hazard

| Product/ingredient name   | Result                         |
|---|--------------------------------|
| Reaction mass of ethylbenzene and xylene                                | ASPIRATION HAZARD - Category 1 |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 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. May cause respiratory irritation.
- 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

## 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 effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Causes damage to organs through prolonged or repeated exposure.

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

**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                  | Result                              | Species  | Exposure |
|--|-------------------------------------|--|----------|
| Reaction mass of ethylbenzene and xylene | Acute EC50 2.2 mg/l                 | Algae - Algae - <i>Selenastrum capricornutum</i>                   | 73 hours |
|  | Acute LC50 1 mg/l                   | Daphnia - Daphnia - <i>Daphnia magna</i>                           | 24 hours |
|  | Acute LC50 2.6 mg/l                 | Fish - Trout - <i>Oncorhynchus mykiss</i>                          | 96 hours |
|  | Chronic NOEC 16 mg/l                | Micro-organism - Activated sludge - <i>Activated sludge</i>        | 28 days  |
| n-butyl acetate                          | Acute LC50 100 ppm Fresh water      | Fish - Bluegill - <i>Lepomis macrochirus</i>                       | 96 hours |
| 2-methylpropan-1-ol                      | Acute LC50 600 mg/l Marine water    | Crustaceans - Brine shrimp - <i>Artemia salina</i>                 | 48 hours |
|  | Acute LC50 1030000 µg/l Fresh water | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate              | 48 hours |
|  | Acute LC50 1330000 µg/l Fresh water | Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> | 96 hours |
| Fatty acids, linseed-oil,                | Chronic NOEC 4 mg/l Fresh water     | Daphnia - Water flea - <i>Daphnia magna</i>                        | 21 days  |
|  | EC50 15 mg/l Fresh water            | Algae - Algae  | 72 hours |

## SECTION 12: Ecological information

|   |   |  |                                  |
|---|---|--|----------------------------------|
| reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde | Acute EC50 4600 mg/l<br>Acute LC50 1000000 mg/l<br>Chronic NOEC 12 mg/l | Daphnia - Daphnia<br>Fish - <i>Danio rerio</i><br>Algae - Algae                                | 48 hours<br>96 hours<br>72 hours |
| methyl methacrylate   | Acute LC50 130000 µg/l Fresh water                                      | Fish - Fathead minnow - <i>Pimephales promelas</i> - Adult                                     | 96 hours                         |
| n-butyl methacrylate  | Chronic NOEC 2.6 mg/l Fresh water                                       | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate  | 21 days                          |
| 2-hydroxyethyl acrylate   | Acute LC50 4800 µg/l Fresh water  | Fish - Fathead minnow - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours                         |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

| Product/ingredient name | Test | Result                   | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| 2-hydroxyethyl acrylate | EU   | 78 % - Readily - 28 days | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| Fatty acids, linseed-oil, reaction products with 2-amino-2-(hydroxymethyl)-1,3-propanediol and formaldehyde | -                 | -          | Not readily      |
| 2-hydroxyethyl acrylate   | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name   | LogP <sub>ow</sub> | BCF        | Potential |
|---|--------------------|------------|-----------|
| Reaction mass of ethylbenzene and xylene                                | 3.16               | -          | Low       |
| n-butyl acetate   | 2.3                | -          | Low       |
| 2-methylpropan-1-ol   | 1                  | -          | Low       |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | -                  | 10 to 2500 | High      |
| methyl methacrylate   | 1.38               | -          | Low       |
| n-butyl methacrylate  | 2.99               | -          | Low       |
| 2-hydroxyethyl acrylate   | -0.17              | -          | Low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**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** : Yes.

#### Waste catalogue

| Waste code | Waste designation   |
|------------|---|
| 08 01 11*  | waste paint and varnish containing organic solvents or other hazardous substances |





#### Packaging

**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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                 | ADR/RID  | ADN  | IMDG  | IATA   |
|---------------------------------|--|--|---|--|
| 14.1 UN number                  | UN1263   | UN1263   | UN1263  | UN1263   |
| 14.2 UN proper shipping name    | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL  | PAINT RELATED MATERIAL   |
| 14.3 Transport hazard class(es) | 3<br> | 3<br> | 3<br> | 3<br> |
| 14.4 Packing group              | III  | III  | III   | III  |
| 14.5 Environmental hazards      | No.  | Yes.   | No.   | No.  |

#### Additional information

**ADR/RID** : **Tunnel code** (D/E)

**ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

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## SECTION 14: Transport information

**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 accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## 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

P5c

#### 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**

: 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  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic



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## SECTION 16: Other information

PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 SGG = Segregation Group  
 vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

| Classification  | Justification   |
|---|---|
| Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336<br>STOT RE 1, H372<br>Aquatic Chronic 3, H412 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

### Full text of abbreviated H statements

|        |  |
|--------|--|
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                      |
| H311   | Toxic in contact with skin.  |
| H312   | Harmful 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.   |
| H319   | Causes serious eye irritation.                                     |
| H332   | Harmful if inhaled.  |
| H335   | May cause respiratory irritation.                                  |
| H336   | May cause drowsiness or dizziness.                                 |
| H372   | Causes damage to organs through prolonged or repeated exposure.    |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.  |
| H411   | 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. 3      | ACUTE TOXICITY - Category 3                                     |
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                                  |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                                  |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                  |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B                         |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                                 |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                                |
| STOT RE 1         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| 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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### Notice to reader

## SECTION 16: Other information

This product is intended for industrial use only.

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