

# SAFETY DATA SHEET

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: 15 June 2026

Version

: 1



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

### 1.1 Product identifier

**Product name** : HI-TEMP 480 BASE DARK GREY 500200

**Product code** : 000010026726

#### Other means of identification

30014872; 30014873

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

#### Identified uses

Professional spray painting, outdoor (with or without respiratory protection)

Professional spray painting, near-industrial setting

Professional spray painting, indoor (with or without respiratory protection)

**Product use** : Professional applications, Used by spraying.

**Uses advised against** : Product is not intended, labelled or packaged for consumer use.

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

PPG Coatings Belgium BV/SRL

Tweemontstraat 104

B-2100 Deurne

Belgium

Telephone +32-33606311

Fax +32-33606435

**e-mail address of person responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

### 1.4 Emergency telephone number

#### Supplier

+31 20 4075210

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315

Eye Dam. 1, H318

Skin Sens. 1, H317

Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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.

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## SECTION 2: Hazards identification

### 2.2 Label elements

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Toxic to aquatic life with long lasting effects.

Prevention

: Wear protective gloves. Wear eye or face protection. Avoid release to the environment.

Response

: Collect spillage. 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

: Dispose of contents and container in accordance with all local, regional, national and international regulations.  
P280, P273, P391, P305 + P351 + P338, P310, P501

Hazardous ingredients

: bis-[4-(2,3-epoxypropoxy)phenyl]propane; Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane; [3-(2,3-epoxypropoxy)propyl]trimethoxysilane; butan-1-ol and benzyl alcohol

Supplemental label elements

: Contains epoxy constituents. 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.

#### Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: 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.

Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.

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

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Type
bis-[4-(2,3-epoxipropoxy)phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane	EC: 500-210-7 CAS: 68413-24-1	≥5.0 - ≤10	Skin Sens. 1, H317	-	[1]
heptan-2-one	REACH #: 01-2119902391-49 EC: 203-767-1 CAS: 110-43-0 Index: 606-024-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 STOT SE 3, H336	ATE [Oral] = 1600 mg/kg ATE [Inhalation (vapours)] = 16.7 mg/l	[1] [2]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≥1.0 - ≤5.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	REACH #: 01-2119513212-58 EC: 219-784-2 CAS: 2530-83-8	≥1.0 - ≤5.0	Eye Dam. 1, H318 Aquatic Chronic 3, H412	-	[1]
Wollastonite	EC: 237-772-5 CAS: 13983-17-0	≥1.0 - ≤5.0	Not classified.	-	[2]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 790 mg/kg	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	ATE [Oral] = 1200 mg/kg	[1] [2]

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### SECTION 3: Composition/information on ingredients

zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥1.0 - ≤5.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
reaction mass of N, N'-ethane-1,2-diylbis (hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis (12-hydroxyoctadecanamide)	REACH #: 01-0000017860-69 EC: 432-430-3 CAS: SUB102035 Index: 616-200-00-1	≥1.0 - ≤5.0	Aquatic Chronic 4, H413  <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 health or environmental hazard

[2] Substance with a workplace exposure limit

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

**SUB codes represent substances without registered CAS Numbers.**

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- 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

##### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

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## SECTION 4: First aid measures

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

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur

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

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

**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** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

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

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
phosphorus oxides  
halogenated compounds  
metal oxide/oxides

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 6: Accidental release measures

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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- 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

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

### 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

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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## SECTION 7: Handling and storage

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

: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

## SECTION 8: Exposure controls/personal protection

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).

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
heptan-2-one	<b>EU OEL (Europe, 1/2022)</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 238 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 475 mg/m <sup>3</sup> .
xylene	<b>EU OEL (Europe, 1/2022) [xylene, mixed isomers]</b> Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m <sup>3</sup> .
Wollastonite	<b>ACGIH TLV (United States, 1/2025) A4.</b> TWA 8 hours: 1 mg/m <sup>3</sup> . Form: Inhalable fraction.
butan-1-ol	<b>ACGIH TLV (United States, 1/2025)</b> TWA 8 hours: 20 ppm.
benzyl alcohol	<b>IPEL (-)</b> TWA: 5 ppm. STEL: 10 ppm.

### Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard 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

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## SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure	Value
bis-[4-(2,3-epoxypropoxy)phenyl]propane	DNEL - Workers - Long term - Inhalation	<i>Systemic</i> 12.25 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	<i>Systemic</i> 12.25 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i> 8.33 mg/kg bw/day
	DNEL - Workers - Short term - Dermal	<i>Systemic</i> 8.33 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Dermal	<i>Systemic</i> 3.571 mg/kg bw/day
	DNEL - General population - Consumers - Short term - Dermal	<i>Systemic</i> 3.571 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Oral	<i>Systemic</i> 0.75 mg/kg bw/day
	DNEL - General population - Consumers - Short term - Oral	<i>Systemic</i> 0.75 mg/kg bw/day
	DNEL - General population - Long term - Dermal	<i>Systemic</i> 89.3 µg/kg bw/day
	DNEL - General population - Long term - Oral	<i>Systemic</i> 0.5 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	<i>Systemic</i> 0.75 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i> 0.87 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i> 4.93 mg/m <sup>3</sup>
	DNEL - General population - Long term - Oral	<i>Systemic</i> 0.31 mg/kg bw/day
Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane	DNEL - General population - Long term - Dermal	<i>Systemic</i> 0.31 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i> 0.54 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i> 0.875 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i> 3.09 mg/m <sup>3</sup>
	DNEL - General population - Long term - Oral	<i>Systemic</i> 23.32 mg/kg bw/day
	DNEL - General population - Long term - Dermal	<i>Systemic</i> 23.32 mg/kg bw/day
heptan-2-one	DNEL - Workers - Long term - Dermal	<i>Systemic</i> 54.27 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i> 84.31 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i> 394.25 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	<i>Systemic</i> 1516 mg/m <sup>3</sup>
	DNEL - General population - Long term - Oral	<i>Systemic</i> 5 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Local</i> 65.3 mg/m <sup>3</sup>
xylene	DNEL - General population - Long term - Inhalation	<i>Systemic</i> 65.3 mg/m <sup>3</sup>
	DNEL - General population - Long term - Dermal	<i>Systemic</i> 125 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	<i>Systemic</i> 212 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Local</i> 221 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i> 221 mg/m <sup>3</sup>
	DNEL - General population - Short term - Inhalation	<i>Local</i> 260 mg/m <sup>3</sup>
	DNEL - General population - Short term - Inhalation	<i>Systemic</i> 260 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	<i>Local</i> 442 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	<i>Systemic</i> 442 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	<i>Systemic</i> 147 mg/m <sup>3</sup>
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	DNEL - Workers - Short term - Dermal	<i>Systemic</i> 21 mg/kg bw/day

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

butan-1-ol	DNEL - General population - Long term - Oral	<i>Systemic</i>	5 mg/kg bw/day
	DNEL - General population - Long term - Dermal	<i>Systemic</i>	5 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	10 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i>	17 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	70.5 mg/m <sup>3</sup>
	DNEL - General population - Short term - Inhalation	<i>Systemic</i>	26400 mg/m <sup>3</sup>
	DNEL - General population - Long term - Oral	<i>Systemic</i>	1.5625 mg/kg bw/day
	DNEL - General population - Long term - Dermal	<i>Systemic</i>	3.125 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i>	55.357 mg/m <sup>3</sup>
	benzyl alcohol	DNEL - General population - Long term - Inhalation	<i>Local</i>
DNEL - Workers - Long term - Inhalation		<i>Local</i>	310 mg/m <sup>3</sup>
DNEL - General population - Long term - Oral		<i>Systemic</i>	4 mg/kg bw/day
DNEL - General population - Long term - Dermal		<i>Systemic</i>	4 mg/kg bw/day
DNEL - General population - Long term - Inhalation		<i>Systemic</i>	5.4 mg/m <sup>3</sup>
DNEL - Workers - Long term - Dermal		<i>Systemic</i>	8 mg/kg bw/day
DNEL - General population - Short term - Oral		<i>Systemic</i>	20 mg/kg bw/day
DNEL - General population - Short term - Dermal		<i>Systemic</i>	20 mg/kg bw/day
DNEL - Workers - Long term - Inhalation		<i>Systemic</i>	22 mg/m <sup>3</sup>
DNEL - General population - Short term - Inhalation		<i>Systemic</i>	27 mg/m <sup>3</sup>
reaction mass of N, N'-ethane-1,2-diylbis (hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis (12-hydroxyoctadecanamide)	DNEL - Workers - Short term - Dermal	<i>Systemic</i>	40 mg/kg bw/day
	DNEL - Workers - Short term - Inhalation	<i>Systemic</i>	110 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	35.24 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	10 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Oral	<i>Systemic</i>	5 mg/kg bw/day
	DNEL - General population - Long term - Oral	<i>Systemic</i>	5 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	10 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	35.24 mg/m <sup>3</sup>

**PNECs**

<b>Product/ingredient name</b>	<b>Compartment Detail - Method</b>	<b>Value</b>
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Fresh water - Assessment Factors	0.006 mg/l
	Marine water - Assessment Factors	0.001 mg/l
	Fresh water sediment - Equilibrium Partitioning	0.996 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.1 mg/kg dwt
	Soil - Equilibrium Partitioning	0.196 mg/kg dwt
	Sewage Treatment Plant - Assessment Factors	10 mg/l
heptan-2-one	Secondary Poisoning - Assessment Factors	11 mg/kg
	Fresh water - Assessment Factors	0.0982 mg/l
	Marine water - Assessment Factors	0.00982 mg/l
	Fresh water sediment - Equilibrium Partitioning	1.89 mg/kg

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trizinc bis(orthophosphate)	Marine water sediment - Equilibrium Partitioning Sewage Treatment Plant - Assessment Factors Soil - Equilibrium Partitioning Fresh water - Sensitivity Distribution Marine water - Sensitivity Distribution Sewage Treatment Plant - Assessment Factors Fresh water sediment - Sensitivity Distribution	0.189 mg/kg 12.5 mg/l 0.321 mg/kg 20.6 µg/l 6.1 µg/l 100 µg/l 117.8 mg/kg dwt
xylene	Marine water sediment - Equilibrium Partitioning Soil - Sensitivity Distribution Fresh water Marine water Sewage Treatment Plant Fresh water sediment Marine water sediment Soil Fresh water - Assessment Factors	56.5 mg/kg dwt 35.6 mg/kg dwt 0.327 mg/l 0.327 mg/l 6.58 mg/l 12.46 mg/kg dwt 12.46 mg/kg dwt 2.31 mg/kg 1 mg/l
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Marine water - Assessment Factors Sewage Treatment Plant - Assessment Factors Fresh water sediment - Equilibrium Partitioning Marine water sediment - Equilibrium Partitioning Soil - Equilibrium Partitioning	0.1 mg/l 10 mg/l 3.6 mg/kg dwt 0.36 mg/kg dwt 0.14 mg/kg dwt
butan-1-ol	Fresh water Marine water Fresh water sediment Marine water sediment Soil	0.082 mg/l 0.0082 mg/l 0.178 mg/kg 0.0178 mg/kg 0.015 mg/kg
zinc oxide	Sewage Treatment Plant Fresh water - Sensitivity Distribution Marine water - Sensitivity Distribution Fresh water sediment - Sensitivity Distribution Sewage Treatment Plant - Assessment Factors Marine water sediment - Assessment Factors Soil - Sensitivity Distribution Fresh water	2476 mg/l 20.6 µg/l 6.1 µg/l 117 mg/kg dwt 52 µg/l 56.5 mg/kg dwt 35.6 mg/kg dwt 0.009 mg/l
reaction mass of N, N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)	Fresh water Marine water Sewage Treatment Plant Fresh water sediment Marine water sediment Soil	0.001 mg/l 100 mg/l 384 mg/kg dwt 38.4 mg/kg dwt 52.1 mg/kg dwt

### 8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

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## SECTION 8: Exposure controls/personal protection

- 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Chemical splash goggles and face shield. Use eye protection according to EN 166.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. 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.
- Gloves** : butyl rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 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** : Various
- Odour** : Aromatic. [Slight]
- Melting point/freezing point** : Not determined.

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## SECTION 9: Physical and chemical properties

**Boiling point or initial boiling point and boiling range** : >37.78°C

**Flammability** : Not determined. There are no data available on the mixture itself.

**Lower and upper explosion limit** : Not available.

**Flash point** : Closed cup: 73°C

**Auto-ignition temperature** :

Ingredient name	°C	°F	Method
butan-1-ol	355	671	EU A.15

**Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).

**pH** : Not applicable. insoluble in water.

**Viscosity** : Dynamic (room temperature): Not available.  
 Kinematic (room temperature): Not available.  
 Kinematic (40°C): >21 mm<sup>2</sup>/s

**Viscosity** : > 100 s (ISO 6mm)

**Solubility** :

Media	Result
cold water	Not soluble

**Partition coefficient n-octanol/ water (log Pow)** : Not applicable.

**Vapour pressure** :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
heptan-2-one	6.88	0.92				

**Relative density** : 1.59

### Particle characteristics

**Median particle size** : Not applicable.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

**Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

**Oxidising properties** : Product does not present an oxidizing hazard.

No additional information.

## 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** : The product is stable.

**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. Refer to protective measures listed in sections 7 and 8.

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## SECTION 10: Stability and reactivity

**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** : Depending on conditions, decomposition products may include the following materials: carbon oxides phosphorus oxides halogenated compounds metal oxide/oxides

## SECTION 11: Toxicological information

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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

#### Acute toxicity

Product/ingredient name	Result	Dose / Exposure
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Rabbit - Dermal - LD50	23000 mg/kg
Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane	Rat - Oral - LD50	15000 mg/kg
	Rat - Oral - LD50	5 g/kg
heptan-2-one	Rabbit - Dermal - LD50	>2 g/kg
	Rat - Oral - LD50	1.6 g/kg
	Rabbit - Dermal - LD50	10.206 g/kg
	Rat - Inhalation - LC50 Vapour	16.7 mg/l [4 hours]
trizinc bis(orthophosphate)	Rat - Oral - LD50	>5000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	>5.7 mg/l [4 hours]
xylene	Rat - Oral - LD50	4.3 g/kg
	Rabbit - Dermal - LD50	1.7 g/kg
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Rat - Oral - LD50	7.01 g/kg
	<i>Toxic effects:</i> Behavioral - Somnolence (general depressed activity) Behavioral - Coma	
butan-1-ol	Rat - Inhalation - LC50 Dusts and mists	>5.3 mg/l [4 hours]
	Rabbit - Dermal - LD50	3400 mg/kg
	<i>Toxic effects:</i> Eye - Corneal damage Cardiac - Pulse rate Lung, Thorax, or Respiration - Dyspnea	
benzyl alcohol	Rat - Oral - LD50	790 mg/kg
	<i>Toxic effects:</i> Liver - Fatty liver degeneration Kidney, Ureter, and Bladder - Other changes Blood - Other changes	
	Rat - Inhalation - LC50 Vapour	24000 mg/m <sup>3</sup> [4 hours]
	Rabbit - Dermal - LD50	>2000 mg/kg
	Rat - Oral - LD50	1200 mg/kg
zinc oxide	Rat - Inhalation - LC50 Dusts and mists	>5 mg/l [4 hours]
	Rat - Oral - LD50	>5000 mg/kg
	Rat - Dermal - LD50	>2000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	>5700 mg/m <sup>3</sup> [4 hours]
reaction mass of N, N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxohexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)	Rat - Oral - LD50	>2000 mg/kg

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## SECTION 11: Toxicological information

	Rat - Dermal - LD50	>2000 mg/kg
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### Acute toxicity estimates

Route	ATE value
Oral	16163.29 mg/kg
Dermal	55099.34 mg/kg
Inhalation (vapours)	204.33 mg/l

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Irritation/Corrosion

Product/ingredient name	Result
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Rabbit - Eyes - Redness of the conjunctivae Duration of treatment/exposure: 24 hours Irritation score: 0.4
-	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Fully reversible in 7 days or less
-	Rabbit - Skin - Erythema/Eschar Duration of treatment/exposure: 4 hours Irritation score: 0.8
-	Rabbit - Skin - Oedema Duration of treatment/exposure: 4 hours Irritation score: 0.5
-	Rabbit - Skin - Mild irritant Duration of treatment/exposure: 4 hours
xylene	Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours
butan-1-ol	Rabbit - Eyes - Cornea opacity Irritation score: 4

### Conclusion/Summary

**Skin** : Causes skin irritation.

**Eyes** : Causes serious eye damage.

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

### Respiratory or skin sensitization

Product/ingredient name	Test	Result
bis-[4-(2,3-epoxipropoxy)phenyl] propane	Mouse - skin	Sensitising

### Conclusion/Summary

**Skin** : May cause an allergic skin reaction.

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

### Mutagenicity

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

### Carcinogenicity

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

### Reproductive toxicity

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## SECTION 11: Toxicological information

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

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
heptan-2-one	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects

### **Conclusion/Summary :**

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

### Specific target organ toxicity (repeated exposure)

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

### Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1

### **Conclusion/Summary :**

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

**Information on likely routes of exposure :** Not available.

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye damage.

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

- Inhalation** : No specific data.
- Ingestion** : Adverse symptoms may include the following:  
stomach pains
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur
- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

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

#### Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

### Potential chronic health effects

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- 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** : Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Avoid contact with skin and clothing.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

There are no data available on the mixture itself.  
 Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

### 12.1 Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Chronic - NOEC	Daphnia	0.3 mg/l [21 days]
heptan-2-one	Acute - LC50 - Fresh water	Daphnia - <i>daphnia magna</i>	1.8 mg/l [48 hours]
trizinc bis(orthophosphate)	Acute - LC50	Fish	131 mg/l [96 hours]
	Acute - LC50	Fish	0.112 mg/l [96 hours]
	Chronic - NOEC	Fish	0.026 mg/l [30 days]
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Acute - EC50 - Fresh water	Algae	255 mg/l [72 hours]
	Acute - EC50	Daphnia	473 mg/l [48 hours]
	Acute - LC50	Fish	55 mg/l [96 hours]
butan-1-ol	Acute - LC50	Fish	1376 mg/l [96 hours]
zinc oxide	Acute - EC50 - Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	0.481 mg/l [48 hours]
	Acute - EC50	Algae	0.17 mg/l [72 hours]
	Chronic - NOEC - Fresh water	Algae	0.017 mg/l [72 hours]
reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide	Acute - LC50	Fish	>1000 mg/l [96 hours]

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## SECTION 12: Ecological information

and N, N'-ethane-1,2-diylbis  
 (12-hydroxyoctadecan amide)

**Conclusion/Summary** : Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
heptan-2-one [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	OECD 310 -	69% [28 days] - Readily 37% [28 days] - Not readily	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxy) phenyl]propane	-	-	Not readily
heptan-2-one	-	-	Readily
xylene	-	-	Readily
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-	-	Not readily
benzyl alcohol	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
heptan-2-one	2.26	-	Low
xylene	3.12	7.4 to 18.5	Low
butan-1-ol	1	-	Low
benzyl alcohol	0.87	-	Low

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
bis-[4-(2,3-epoxipropoxy)phenyl]propane	4	10465.7
heptan-2-one	1.6	39.9018
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2.4	266.308
butan-1-ol	0.51	3.22078
benzyl alcohol	1.1	12.6442

### 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 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

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## 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** :

#### European waste catalogue (EWC)

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	European waste catalogue (EWC)
Container	15 01 06 mixed packaging

**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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number or ID number</b>	UN3082	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PAINT)
<b>14.3 Transport hazard class(es)</b>	9	9	9	9
<b>14.4 Packing group</b>	III	III	III	III
<b>14.5 Environmental hazards</b>	Yes.	Yes.	Yes.	Yes.
<b>Marine pollutant substances</b>	Not applicable.	Not applicable.	(bis-[4-(2,3-epoxipropoxy)phenyl]propane)	Not applicable.

### Additional information

English (GB)

Europe

18/24

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## SECTION 14: Transport information

- ADR/RID** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- Tunnel code** : (-)
- ADN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**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 Maritime transport in bulk according to IMO instruments** : Not applicable.

## SECTION 15: Regulatory information

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

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[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](#)

Product/ingredient name	Entry Number ( REACH )
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**Labelling** : Not applicable.

**Other EU regulations**

**Explosive precursors** : Not applicable.

[Ozone depleting substances \(EU 2024/590\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

**Seveso Directive**

This product is controlled under the Seveso Directive.

[Danger criteria](#)

Category
E2

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## SECTION 15: Regulatory information

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

 Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 PBT = Persistent, Bioaccumulative and Toxic  
 vPvB = Very Persistent and Very Bioaccumulative  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 IMDG = International Maritime Dangerous Goods  
 IATA = International Air Transport Association

### Full text of abbreviated H statements

H226	Flammable liquid and vapour.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
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. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

### History

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## SECTION 16: Other information

**Date of issue/ Date of revision** : 15 June 2026

**Date of previous issue** : No previous validation

**Prepared by** : EHS

**Version** : 1

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*

# Safe Use of Mixtures Information for end-users

**Title** : Professional spray painting, outdoor (without respiratory protection)

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

## General description of the process covered

Outdoor spray painting by professionals for general applications (e.g. decorative)

**This safe use information is linked to SWED no.** : CEPE\_PW\_05a

**Product category(ies)** : Coatings and paints, thinners, paint removers

## Operational conditions

**Place of use** : Outdoor use

## Risk management measures (RMM)

Contributing activity	Maximum duration	Ventilation		Respiratory	Eye	Hands
		Type	ach (air changes per hour)			
Preparation of material for application	More than 4 hours	Outdoors	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	More than 4 hours	Outdoors	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings and inks by spraying	More than 4 hours	Outdoors	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	More than 4 hours	Outdoors	3 - 5	See section 8 of this Safety Data Sheet for specifications.	None	None
Cleaning	More than 4 hours	Outdoors	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	More than 4 hours	Outdoors	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See section 8 of this Safety Data Sheet for specifications.



In case this product contains substances classified as hazardous to the environment, the use has been assessed to be safe for the environment. The assessment is based on the exposure parameters that are described for the product use in the corresponding SPERCs. For the disposal of product residues and waste please refer to section 13 of the Safety Data Sheet.

### Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

# Safe Use of Mixtures Information for end-users

**Title** : Professional spray painting, near-industrial setting

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

## General description of the process covered

Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

**This safe use information is linked to SWED no.** : CEPE\_PW\_01

**Product category(ies)** : Coatings and paints, thinners, paint removers

## Operational conditions

**Place of use** : Indoor use

## Risk management measures (RMM)

Contributing activity	Maximum duration	Ventilation		Respiratory	Eye	Hands
		Type	ach (air changes per hour)			
Preparation of material for application	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings and inks by spraying	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	See section 8 of this Safety Data Sheet for specifications.	None	None
Cleaning	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See section 8 of this Safety Data Sheet for specifications.



In case this product contains substances classified as hazardous to the environment, the use has been assessed to be safe for the environment. The assessment is based on the exposure parameters that are described for the product use in the corresponding SPERCs. For the disposal of product residues and waste please refer to section 13 of the Safety Data Sheet.

### Disclaimer

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# Safe Use of Mixtures Information for end-users

**Title** : Professional spray painting, indoor (with respiratory protection)

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

## General description of the process covered

Indoor spray painting by professionals for specialist applications, with good general room ventilation plus respiratory protection

**This safe use information is linked to SWED no.** : CEPE\_PW\_03b

**Product category(ies)** : Coatings and paints, thinners, paint removers

## Operational conditions

**Place of use** : Indoor use

## Risk management measures (RMM)

Contributing activity	Maximum duration	Ventilation		Respiratory	Eye	Hands
		Type	ach (air changes per hour)			
Preparation of material for application	More than 4 hours	Good general room ventilation	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	More than 4 hours	Good general room ventilation	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings and inks by spraying	More than 4 hours	Good general room ventilation	3 - 5	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	More than 4 hours	Good general room ventilation	3 - 5	See section 8 of this Safety Data Sheet for specifications.	None	None
Cleaning	More than 4 hours	Good general room ventilation	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	More than 4 hours	Good general room ventilation	3 - 5	See section 8 of this Safety Data Sheet for specifications.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See section 8 of this Safety Data Sheet for specifications.



In case this product contains substances classified as hazardous to the environment, the use has been assessed to be safe for the environment. The assessment is based on the exposure parameters that are described for the product use in the corresponding SPERCs. For the disposal of product residues and waste please refer to section 13 of the Safety Data Sheet.

### Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

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