# SAFETY DATA SHEET

Date of issue/Date of revision

: 20 December 2023 Version



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Europe

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

**1.1 Product identifier** 

: SIGMACOVER 456 US BASE Z : 00333338

**Product code** 

Other means of identification

Not available.

**Product name** 

1.2 Relevant identified uses of the substance or mixture and uses advised against			
Product use	:	Industrial applications, Used by spraying.	
Use of the substance/ mixture	:	Coating.	
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] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360FD STOT RE 1. H372 Aquatic Chronic 3, H412 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.

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# **SECTION 2: Hazards identification**

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

### 2.2 Label elements

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Hazard	pictograms
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Signal word	1	Danger
Hazard statements	:	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	1	IF exposed or concerned: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P202, P280, P210, P260, P308 + P313, P501
Hazardous ingredients	:	crystalline silica, respirable powder (<10 microns) bis-[4-(2,3-epoxipropoxi)phenyl]propane Epoxy Resin (700 <mw<=1100) bis(2-ethylhexyl) phthalate</mw<=1100) 
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	:	Restricted to professional users.
Special packaging requirem	en	ts
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	:	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	:	Prolonged or repeated contact may dry skin and cause irritation.
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# **SECTION 2: Hazards identification**

May cause endocrine disruption.

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
xylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - <20	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]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥10 - ≤25	STOT RE 1, H372 (inhalation)	-	[1] [2]
bis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥5.0 - ≤10	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]
Epoxy Resin (700 <mw &lt;=1100)</mw 	CAS: 67924-34-9	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
bis(2-ethylhexyl) phthalate	EC: 204-211-0 CAS: 117-81-7 Index: 607-317-00-9	≥1.0 - ≤5.0	Repr. 1B, H360FD	-	[1] [2] [3]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	<1.0	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10% EUH066: C ≥ 20%	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
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# **SECTION 3: Composition/information on ingredients**

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

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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 irritation.
Inhalation	No known significant effects or critical hazards.
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/sympton	<u>ns</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

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SECTION 4: First aid	measures
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immedi	ate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful 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 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathin apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to Europea 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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 spill 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

ventilation. Wear appropriate respirator when ventilation is inadequate. Do not e storage areas and confined spaces unless adequately ventilated. Keep in the ori container or an approved alternative made from a compatible material, kept tightl closed when not in use. Store and use away from heat, sparks, open flame or ar ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measure	Protective measures	handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation	on (EU)
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# **SECTION 7: Handling and storage**

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.
7.2 Conditions for safe storage, including any incompatibilities	: Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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
<b>x</b> ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2023). [Silica, crystalline]
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 442 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
bis(2-ethylhexyl) phthalate	ACGIH TLV (United States, 1/2023). Absorbed through skin.
	TWA: 0.1 mg/m <sup>3</sup> 8 hours.
toluene	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 192 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	)
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# SECTION 8: Exposure controls/personal protection

Recommended monitoring	: Reference should be made to monitoring standards, such as the following: European
procedures	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**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
<b>x</b> ylene	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
bis-[4-(2,3-epoxipropoxi)	DNEL	Long term Inhalation	12.25 mg/m <sup>3</sup>	Workers	Systemic
ohenyl]propane	DINCL		12.25 mg/m	WOIKEIS	Oysternic
	DNEL	Short term Inhalation	12.25 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General	Systemic
				population	-,
				[Consumers]	
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General	Systemic
		Short term Derma	5.57 Ting/kg bw/day	population	Oysternic
				[Consumers]	
		Long torm Oral	0.75 mg/kg bw/dev		Sustamia
	DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic
				population	
			/ . /.	[Consumers]	
	DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic
				population	
				[Consumers]	
	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
5	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
bis(2-ethylhexyl) phthalate	DNEL	Long term Oral	0.036 mg/kg bw/day	General population	Systemic
	DNEL		0.030  mg/kg bw/day 0.13 mg/m <sup>3</sup>	General population	
		Long term Inhalation			Systemic Systemic
	DNEL	Long term Dermal	0.72 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	1.6 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	Workers	Systemic
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SECTION 8: Exposure controls/personal protection

Hydrocarbons, C9, aromatics > 0.1% cumene	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic	
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	General population		
	DNEL	Long term Dermal	11 mg/kg bw/day	General population		
	DNEL	Long term Oral	11 mg/kg bw/day	General population		
toluene	DNEL	Long term Oral	8.13 mg/kg bw/day	General population		
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population		
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population		
	DNEL	Long term Inhalation	192 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Long term Inhalation	192 mg/m <sup>3</sup>	Workers	Systemic	
	DNEL	Long term Dermal	226 mg/kg bw/day	General population		
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population		
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population		
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	384 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Short term Inhalation	384 mg/m <sup>3</sup>	Workers	Systemic	

#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
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	-
	-	Soil	2.31 mg/kg	-
bis-[4-(2,3-epoxipropoxi)phenyl] propane	-	Fresh water	0.006 mg/l	Assessment Factors
	-	Marine water	0.001 mg/l	Assessment Factors
	-	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
	-	Soil	0.196 mg/kg dwt	Equilibrium Partitioning
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Secondary Poisoning	11 mg/kg	Assessment Factors
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-		9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 mg/kg	-
toluene	-	Fresh water	0.68 mg/l	Sensitivity Distribution
	-	Marine water	0.68 mg/l	Sensitivity Distribution
	-	Sewage Treatment Plant	13.61 mg/l	Sensitivity Distribution
	-	Fresh water sediment	16.39 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	16.39 mg/kg dwt	-

### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Individual protection measures

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by C	Commission Regulation (EU)
2020/878	

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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. 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. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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.

English (GB)	Europe	10/19
Odour threshold	: Not available.	
Odour	: Characteristic.	
Colour	: Not available.	
Physical state	: Liquid.	
<u>Appearance</u>		
9.1 Information on basic ph	nysical and chemical properties	

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SECTION 9: Physical ar	nd	chemical properties	•			
Melting point/freezing point	:	: May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: -68.34°C (-91°F)				
Initial boiling point and boiling range	:	>37.78°C				
Flammability	:	Not available.				
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 0.8% Upper: 6.7% (xylene)				
Flash point	÷	Closed cup: 27.22°C				
Auto-ignition temperature	:					
		Ingredient name	°C	°F	Method	
		bis(2-ethylhexyl) phthalate	390	734		
Decomposition temperature	÷	Stable under recommended s	torage and	handling con	ditions (see Section 7).	
рН	:	Not applicable. insoluble in wa	ater.	0	, , , , , , , , , , , , , , , , , , ,	
Viscosity	:	Kinematic (40°C): >21 mm <sup>2</sup> /s				
Solubility(ies)	:					
Media		Result				
cold water		Not soluble				
Water Solubility at room temperature	:	0.1 g/l				
Partition coefficient: n-octanol/ water	:	Not applicable.				
Vapour pressure	1	0.87 kPa (6.5 mm Hg)				
Evaporation rate	:	0.62 (butyl acetate = 1)				
Relative density	÷	1.27				
Vapour density	:	Highest known value: 13.45 ( average: 6.4 (Air = 1)	(Air = 1) (bi	s(2-ethylhexy	l) phthalate). Weighted	
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	1	Product does not present and	oxidizing ha	zard.		
article characteristics						
Median particle size	1	Not applicable.				
.2 Other information						
No additional information.						

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.

English (GB)	Europe	11/19

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SECTION 10: Stability and reactivity						
<b>10.5 Incompatible materials</b> : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.						

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

# **SECTION 11: Toxicological information**

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

# Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
bis(2-ethylhexyl) phthalate	LD50 Dermal	Rabbit	25 g/kg	-
	LD50 Oral	Rat	30 g/kg	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
oumono	LD50 Oral	Rat - Female	3492 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene bis-[4-(2,3-epoxipropoxi)phenyl]propane	Skin - Moderate irritant Eyes - Mild irritant Eyes - Redness of the conjunctivae Skin - Oedema Skin - Erythema/Eschar Skin - Mild irritant	Rabbit Rabbit Rabbit Rabbit Rabbit Rabbit	- - 0.4 0.5 0.8 -	24 hours 500 mg 24 hours 24 hours 4 hours 4 hours 4 hours 4 hours	- - - -

# Conclusion/Summary

Skin : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory

Eyes

: There are no data available on the mixture itself.

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Sensitisation
```

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising

# Conclusion/Summary

- Skin
- Respiratory

There are no data available on the mixture itself.There are no data available on the mixture itself.

<u>Mutagenicity</u>

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SECTION 11: Toxicological information					
Conclusion/Summary	: There are no data available on the mixture itself				

Conclusion/Summary	
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.

# Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects
toluene	Category 3	-	Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2	-	-

# **Aspiration hazard**

Produ	ct/ingredient name	Result		
xylene ethylbenzene Hydrocarbons, C9, aromatics > 0.1% cumene toluene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		
Information on likely : Not available. routes of exposure				
Potential acute health ef	<u>fects</u>			
Inhalation : No known significant effects		or critical hazards.		
Ingestion	: No known significant effects	No known significant effects or critical hazards.		
Skin contact	: Causes skin irritation. Defa	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.		
<b>Eye contact</b> : Causes serious eye irritation.		۱.		
Symptoms related to the	physical, chemical and toxicolog	gical characteristics		
Inhalation	: Adverse symptoms may incl reduced foetal weight increase in foetal deaths skeletal malformations	lude the following:		
Ingestion	: Adverse symptoms may include reduced foetal weight increase in foetal deaths skeletal malformations	lude the following:		

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	-					
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced foetal weight increase in foetal deaths skeletal malformations					
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness					
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure					
<u>Short term exposure</u>						
Potential immediate effects	: Not available.					
Potential delayed effects Long term exposure	: Not available.					
Potential immediate effects	: Not available.					
Potential delayed effects	: Not available.					
Potential chronic health effe	ects					
Not available.						
Conclusion/Summary	: Not available.					
General	: Causes damage to organs through prolonged or repeated exposure. 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	: May damage fertility. May damage the unborn child.					
Other information	: Not available.					

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. Avoid contact with skin and clothing.

#### 11.2 Information on other hazards

#### **11.2.1 Endocrine disrupting properties**

#### May cause endocrine disruption.

#### 11.2.2 Other information

Not available.

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# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l LC50 9.2 mg/l	Daphnia Fish	48 hours 96 hours

**Conclusion/Summary** : There are no data available on the mixture itself.

### **12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene Hydrocarbons, C9, aromatics > 0.1% cumene	-	79 % - Readily - 10 days 75 % - Readily - 28 days	-	-
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
bis-[4-(2,3-epoxipropoxi)phenyl]propane	-	-	Not readily
ethylbenzene	-	-	Readily
Hydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily
toluene	-	-	Readily

### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
bis(2-ethylhexyl) phthalate	7.6	588.84	High
toluene	2.73	8.32	Low

# 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: 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 Endocrine disrupting properties**

May cause endocrine disruption.

### 12.7 Other adverse effects

English (	GB)
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# **SECTION 12: Ecological information**

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<br/>of this product, solutions and any by-products should at all times comply with the<br/>requirements of environmental protection and waste disposal legislation and any<br/>regional local authority requirements. Dispose of surplus and non-recyclable products<br/>via a licensed waste disposal contractor. Waste should not be disposed of untreated to<br/>the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- **Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation		
08 01 99	wastes not otherwise specified		
Packaging Methodo of diapocol	. The generation of wests should be sucided or minimized wherever pessible. Wests		

 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)           15 01 06         mixed packaging	
Container		
Special precautions	taken when l Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.

# 14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III			III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

English (GB)

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# **14. Transport information**

### **Additional information**

ADR/RID Tunnel code	one identified. D/E)
ADN	he product is only regulated as an environmentally hazardous substance when transported in tank essels.
IMDG	one identified.
ΙΑΤΑ	one identified.
14.6 Special preca user	ons for : 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 tran	

bulk according to IMO

# instruments

# **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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
	bis(2-ethylhexyl) phthalate	Listed	4	12/14/2021
	bis(2-ethylhexyl) phthalate	Listed	4	12/14/2021

# Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction Endocrine disrupting properties for human health	bis(2-ethylhexyl) phthalate bis(2-ethylhexyl) phthalate	Recommended Recommended	ED/30/2017 ED/30/2017	7/10/2019 7/10/2019
Endocrine disrupting properties for environment	bis(2-ethylhexyl) phthalate	Recommended	ED/30/2017	7/10/2019

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market

and use of certain dangerous substances,

mixtures and articles

**Explosive precursors** : Not applicable.

# Ozone depleting substances (1005/2009/EU)

Not listed.

# Seveso Directive

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# **SECTION 15: Regulatory information**

This product is controlled under the Seveso Directive.

# Danger criteria

Category

P5c

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

### assessment

# **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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated
	exposure.
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 [CLP/GHS]

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SECTION 16: Other information	
Acute Tox. 4	ACUTE TOXICITY - Category 4
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
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPEČIFÍC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

### <u>History</u>

STOT SE 3

Date of issue/ Date of revision	: 20 December 2023
Date of previous issue	: 21 October 2023
Prepared by	: EHS
Version	: 5

#### <u>Disclaimer</u>

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Category 3