SAFETY DATA SHEET

Date of issue/Date of revision

: 28 October 2022

Version : 22



France

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

1.1 Product identifier

Product name	:	SIGMASHIELD 460 BASE GREY
Product code	:	00155025

Other means of identification

Not available.

1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional 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 : Product.Stewardship.EMEA@ppg.com responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Centre

Numéro de téléphone d'appel d'urgence : 01 45 42 59 59 (Association ORFILA, organisme agréé prévu au 4ème alinéa de l'article L231-7 du code du travail)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Flam. Liq. 3, H226 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 c

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	:	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		▶280, P210, P273, P391, P305 + P351 + P338, P501
Hazardous ingredients	:	bis-[4-(2,3-epoxipropoxi)phenyl]propane nonylphenol 2-methylpropan-1-ol Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-
Supplemental label elements	:	Contains epoxy constituents. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles		Not applicable.
Special packaging requirem		
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.
		May cause endocrine disruption.

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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	Туре
pís-[4-(2,3-epoxipropoxi) 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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - <10	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]
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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
nonylphenol	EC: 246-672-0 CAS: 25154-52-3 Index: 601-053-00-8	≥0.30 - <2.5	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 580 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-	CAS: 55349-01-4	≥1.0 - ≤5.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413 See Section 16 for	-	[1]
			the full text of the H statements declared above.		

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

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

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SECTION 3: Composition/information on ingredients

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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 run 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 bre irregular or if respiratory arrest occurs, provide artificial respiration or oxyg personnel.	
Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soa or use recognised skin cleanser. Do NOT use solvents or thinners.	ıp and water
Ingestion	If swallowed, seek medical advice immediately and show the container or person warm and at rest. Do NOT induce vomiting.	label. Keep
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable trais suspected that fumes are still present, the rescuer should wear an approp self-contained breathing apparatus. It may be dangerous to the person pr give mouth-to-mouth resuscitation. Wash contaminated clothing thorough before removing it, or wear gloves.	riate mask or oviding aid to

4.2 Most important symptoms and effects, both acute and delayed

Potential acute healt	<u>h effects</u>
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.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	s/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 i	mmediate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 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 nitrogen oxides 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 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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. Do not breathe 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. Collect spillage.
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.

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SECTION 6: Acc	ental release measures
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 ar 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.
	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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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.
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 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.

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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				
<mark>∉t</mark> hylbenzene	Ministry of Labor (France, 5/2021). Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 88.4 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation				
xylene	Ministry of Labor (France, 5/2021). [] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 221 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation				
2-methylpropan-1-ol	Ministry of Labor (France, 5/2021). TWA: 150 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation				

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace procedures atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
s-[4-(2,3-epoxipropoxi) phenyl]propane	DNEL	Long term Inhalation	12.25 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/m ³	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 population [Consumers]	Systemic
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic
	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 ³	General population	Systemic
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SECTION 8: Exposure controls/personal protection

•		• •			
	DNEL	Long term Inhalation	4.93 mg/m ³	Workers	Systemic
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m³	Workers	Local
xylene	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m ³	General population	Local
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
bis-[4-(2,3-epoxipropoxi)phenyl] propane	-	Fresh water	0.006 mg/l	Assessment Factors
propane	_	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
	-		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
	-	Sewage Treatment Plant	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	-
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	-
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-		10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.156 mg/kg dwt	-
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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SECTION 8: Exposure	ntrols/person	al protection	
Appropriate engineering controls	r other engineering on ny recommended or	statutory limits. The engineering ntrations below any lower explos	to airborne contaminants below g controls also need to keep gas,
Individual protection measu			
Hygiene measures	ating, smoking and u ppropriate technique contaminated work c ontaminated clothing	ns and face thoroughly after hand using the lavatory and at the end es should be used to remove pot lothing should not be allowed out g before reusing. Ensure that eye the workstation location.	of the working period. entially contaminated clothing. t of the workplace. Wash
Eye/face protection	hemical splash gog	gles and face shield. Use eye pr	otection according to EN 166.
Skin protection			
Hand protection	orn at all times when a necessary. Consid- uring use that the glu- oted that the time to love manufacturers. rotection time of the requently repeated co preakthrough time gu when only brief conta- preakthrough time gu he user must check roduct is the most a	n handling chemical products if a lering the parameters specified b oves are still retaining their prote breakthrough for any glove mate In the case of mixtures, consist gloves cannot be accurately esti ontact may occur, a glove with a reater than 480 minutes according act is expected, a glove with a pro- reater than 30 minutes according that the final choice of type of glo	y the glove manufacturer, check ctive properties. It should be erial may be different for different ing of several substances, the mated. When prolonged or protection class of 6 Ig to EN 374) is recommended. otection class of 2 or higher to EN 374) is recommended.
Gloves	utyl rubber		
Body protection	eing performed and andling this product. tatic protective cloth hould include anti-st	quipment for the body should be the risks involved and should be When there is a risk of ignition ing. For the greatest protection f atic overalls, boots and gloves. I nation on material and design re-	approved by a specialist before from static electricity, wear anti- rom static discharges, clothing Refer to European Standard EN
Other skin protection		and any additional skin protectio ing performed and the risks invol ndling this product.	
Respiratory protection	azards of the produc orkers are exposed ppropriate, certified omplying with an ap	nust be based on known or antic ct and the safe working limits of t to concentrations above the exp respirators. Use a properly fitted proved standard if a risk assess forming to EN140. Filter type: o	he selected respirator. If osure limit, they must use l, air-purifying or air-fed respirator nent indicates this is necessary.
Environmental exposure controls	ney comply with the ases, fume scrubbe	ation or work process equipment requirements of environmental parts, filters or engineering modificated aduce emissions to acceptable le	rotection legislation. In some tions to the process equipment

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SECTION 9: Physical and chemical properties

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

ensity : properties :	2-methylpropan-1-ol Highest known value butyl acetate 1.35 Highest known value Weighted average: & The product itself is vapour or dust with a Product does not pre	<12 e: 0.84 (et e: 11.7 (A 3.97 (Air = not explos air is poss	ir = 1) (l = 1) sive, but ible.	bis-[4-(2,3 the forma	3-epoxiprop	boxi)phenyl]	propane).	
lensity : ensity : properties : properties : aracteristics	Highest known value butyl acetate 1.35 Highest known value Weighted average: 8 The product itself is vapour or dust with a Product does not pre	<12 e: 0.84 (et e: 11.7 (A 3.97 (Air = not explos air is poss	nylbenze ir = 1) (l = 1) sive, but ible.	13016-2 ene) Weig bis-[4-(2,3 the forma	ghted aver 3-epoxiprop	boxi)phenyl]	propane).	
lensity : ensity : properties : properties :	Highest known value butyl acetate 1.35 Highest known value Weighted average: 8 The product itself is vapour or dust with a	<12 e: 0.84 (et e: 11.7 (A 3.97 (Air = not explos air is poss	nylbenze ir = 1) (l = 1) sive, but ible.	13016-2 ene) Weig bis-[4-(2,3 the forma	ghted aver 3-epoxiprop	boxi)phenyl]	propane).	
lensity : ensity : properties :	Highest known value butyl acetate 1.35 Highest known value Weighted average: 8 The product itself is vapour or dust with a	<12 e: 0.84 (et e: 11.7 (A 3.97 (Air = not explos air is poss	nylbenze ir = 1) (l = 1) sive, but ible.	13016-2 ene) Weig bis-[4-(2,3 the forma	ghted aver 3-epoxiprop	boxi)phenyl]	propane).	
lensity : ensity :	Highest known value butyl acetate 1.35 Highest known value Weighted average: 8 The product itself is	<12 e: 0.84 (et e: 11.7 (A 3.97 (Air = not explos	nylbenze ir = 1) (l = 1) sive, but	13016-2 ene) Weig bis-[4-(2,3	ghted aver 3-epoxiprop	boxi)phenyl]	propane).	
lensity :	Highest known value butyl acetate 1.35 Highest known value	<12 e: 0.84 (et	nylbenze ir = 1) (i	13016-2 ene) Wei	ghted aver	-		
lensity :	Highest known value butyl acetate 1.35	<12 e: 0.84 (et	nylbenze	13016-2 ene) Wei	ghted aver	-		
	Highest known value butyl acetate	<12	-	13016-2		age: 0.69co	mpared with	
	2-methylpropan-1-ol		<1.6		Hg			
					Hg			
	Ingredient name	mm Hg	kPa	Metho		kPa	Method	
		Vapoι	r Press	ure at 20	°C Va	apour press	sure at 50°C	
ressure :								
ter								
	Result]	
(ies)	$\frac{1}{1000}$	2111111/5						
	• •							
Smon temperature								
cition to man custome								
	nonylphenol		370			metriou		
ion temperature .	Ingredient name		°C	•	F	Method		
	Sibsed Cup. 28 C							
	Closed cup: 20°C							
ver flammability or		ge: Lower	1.7% l	Upper: 10.	.9% (2-me	thylpropan-1	I-ol)	
-	Not available.							
•••	• •)	,				
	based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propa Weighted average: -23.82°C (-10.9°F)							
		at the follo	wing tor	mperature	• 8 to 12°C	(16 / to 53	6°E) This is	
:								
:								
state :	•							
<u>ce</u>		ties						
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SECTION 9: Physical and chemical properties

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.
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 nitrogen oxides 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
s-[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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
51	LD50 Oral	Rat	580 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
51 1	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					
Skin : There are	no data available on the r	nixture itself			
Eyes : There are	: There are no data available on the mixture itself.				
Respiratory : There are	: There are no data available on the mixture itself.				

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SECTION 11: Toxicological information

Sensitisation

Product/ingre	edient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi)phenyl]propane		skin	Mouse	Sensitising
Conclusion/Summary				I
Skin	: There are no da	ata available on the mixtu	ıre itself.	
Respiratory	: There are no da	ata available on the mixtu	ıre itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no da	ata available on the mixtu	ıre itself.	
Carcinogenicity				
Conclusion/Summary	: There are no da	ata available on the mixtu	ıre itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no da	ata available on the mixtu	ıre itself.	
Teratogenicity				
Conclusion/Summary	: There are no da	ata available on the mixtu	ıre itself.	
Specific target organ toxi	city (single exposure	<u>e)</u>		
Due de stille		Octomore	Deute of	Townstownson

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Produ	ict/ingredient name	Result
ethylbenzene xylene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health ef	fects	
Inhalation	: No known significant effec	ts or critical hazards.
Ingestion	: No known significant effec	ts or critical hazards.
Skin contact	: Causes skin irritation. Def	fatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye dama	ge.
Symptoms related to the	physical, chemical and toxicol	ogical characteristics
Inhalation	: No specific data.	
Ingestion	: Adverse symptoms may in stomach pains	clude the following:

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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
	fects as well as chronic effects from short and long-term exposure
Short term exposure Potential immediate	: Not available.
effects	
Potential delayed effect	s : Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effect	s : Not available.
Potential chronic health e	ifects
Not available.	
Conclusion/Summary	: Not available.
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	: 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

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
ቓis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh	Daphnia - daphnia	48 hours
	water	magna	
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
nonylphenol	Acute EC50 0.056 mg/l	Algae -	72 hours
	Fresh water	Desmodesmus	
		subspicatus	
	Chronic EC10 0.003 mg/l	Algae -	72 hours
	Fresh water	Desmodesmus	
		subspicatus	
	Chronic NOEC 1 µg/l Fresh	Daphnia - Daphnia	21 days
	water	magna	
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 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	-	79 % - Readily - 10 da	iys -	-
Conclusion/Summary	: There are	no data available on the mixtu	ure itself.	
Product/ingredient name		Aquatic half-life	Photolysis	Biodegradability
pís-[4-(2,3-epoxipropoxi)pher ethylbenzene xylene	nyl]propane		- - -	Not readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	low
xylene	3.12	7.4 to 18.5	low
nonylphenol	3.28	154.88	low
2-methylpropan-1-ol	1	-	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.

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SECTION 12: Ecological information

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

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

Hazardous waste

: Yes. 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	ADR/RID	ADN	IMDG	IATA
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		Ш	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
English (GB))	Fra	nce	15/19

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14. Transport information

Marine pollutant Not applicable.	Not applicable.	(bis-[4- (2,3-epoxipropoxi) phenyl]propane, nonylphenol)	Not applicable.
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Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
Tunnel code	(D/E)
ADN	The environmentally hazardous substance mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
IMDG	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pre user	utions 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 tra bulk according instruments	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for environment	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	Candidate	ED/169/2012	4/19/2013
Endocrine disrupting properties for environment	4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	Candidate	ED/169/2012	12/19/2012

prmation licable. 9/EU) eso Directive. nethylethylidene)bis nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê ène et homologues	RG 51 RG 84 RG 4bis, RG 84 [1] RG 84
9/EU) eso Directive. nethylethylidene)bis nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
9/EU) eso Directive. nethylethylidene)bis nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
eso Directive. nethylethylidene)bis nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
nethylethylidene)bis nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
nethylethylidene)bis nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
nethylethylidene)bis nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
nyleneoxymethylene)]bisoxirane zene propan-1-ol nce médicale spéciale selon l'arrê	RG 84 RG 4bis, RG 84 [1] RG 84
applications des peintures et vern	-
ly 11, 1977 determining the list of nce: not applicable	activities which require reinforced medical
rules for the prevention of risks fro nding the Labour code ; Decree no nation of chemical risks and amend ary 2004 on the placing on the ma of 29/12/1988 relating to poisonou f 15 May 1997, relating to the clas 231-53 ; Labour code: Occupation R 232-5-14 ; Labour code: Prever o R 231-54-9 ; Labour code: Prever o R 23-30 ;	no. 2001-97 of 1 February 2001 establishing om carcinogens, mutagens and reprotoxics io. 2003-1254 of 23 December 2003 relating ling the Labour code ; Decree no. 2004-187 of arket of biocidal products ; Decree no. us preparations and substances. ; Decree no. sification of dangerous waste. ; Labour code nal air (ventilation, air purification): Art. R ntion of chemical risk: Art.R231-51 and R ention of fires: Art.R232-12-13 to R 232-12-29 oplicable to women: Art. L 234-3 to L 236-6 ; ng workers: Art. L 234-3 to L 236-6; Art: ons: Art. R 232-2 à R 232-2-7 ; Law 76-663 of decree of 21 September 1977 relating to the environment ; Tables of anticipated R461-3 of the labour code
	rules for the prevention of risks from ending the Labour code; Decree n nation of chemical risks and amend ary 2004 on the placing on the ma of 29/12/1988 relating to poisonor of 15 May 1997, relating to the class 231-53; Labour code: Occupation R 232-5-14; Labour code: Preven o R 231-54-9; Labour code: Preven 33-30; Labour code: provisions ap code: provisions applicable to your ; Labour code: Sanitary installation 976 amending and implementing d installations for the protection of

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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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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]

Conforms to Regulation (E0) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation ((EU)
2020/878		

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Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 STOT RE 2	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3

<u>History</u>	
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Prepared by	: EHS
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