SAFETY DATA SHEET

Date of issue/Date of revision

: 13 December 2024 Version



: 1.02

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

1.1 Product identifier	
Product name	: SIGMAFAST 278 BASE RAL 7043
Product code	: 000001202980
Product type	: Liquid.
Other means of identification	: 00477808
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

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS Mam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360F Aquatic Chronic 2, H411

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

Hazard statements	:	Fammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	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. Avoid release to the environment.
Response	1	Collect spillage. IF exposed or concerned: Get medical advice or attention.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P280, P210, P273, P391, P308 + P313, P501
Supplemental label elements	1	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	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	1	None known.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	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	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	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	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6	≥1.0 - ≤5.0	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	[1]

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SECTION 3: Composition/information on ingredients				
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			See Section 16 for the full text of the H statements declared above.	
Octadecanamide, N, N'-1,6-hexanediylbis[12-hydroxy-	CAS: 55349-01-4	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	[1]
	01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6		(M=1) Aquatic Chronic 1, H410 (M=1)	
methyl] derivs. trizinc bis(orthophosphate)	CAS: 68609-97-2 Index: 603-103-00-4 REACH #:	≤1.0	Skin Sens. 1B, H317 Repr. 1B, H360F Aquatic Acute 1, H400	[1]
oxirane, mono[(C12-14-alkyloxy)	EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 EC: 271-846-8	≥1.0 - ≤5.0	Skin Irrit. 2, H315	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35	≥1.0 - ≤5.0	Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Phenol, styrenated	Index: 603-057-00-5 EC: 262-975-0 CAS: 61788-44-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[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

This mixture contains ≥ 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	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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 in contract : Causes serious eye irritation.

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SECTION 4: First	aid measures		
Inhalation	: No known significa	nt effects or critical hazards.	
Skin contact	: Causes skin irritation	on. May cause an allergic skin reaction	on.
Ingestion	: No known significa	nt effects or critical hazards.	
Over-exposure signs/sy	mptoms		
Eye contact	: Adverse symptoms pain or irritation watering redness	may include the following:	
Inhalation	: Adverse symptoms reduced foetal weig increase in foetal d skeletal malformati	eaths	
Skin contact	: Adverse symptoms irritation redness reduced foetal weig increase in foetal d skeletal malformati	eaths	
Ingestion	: Adverse symptoms reduced foetal weig increase in foetal d skeletal malformati	eaths	

Specific treatments : No specific treatment.	an : Treat symptomaticall quantities have been	y. Contact poison treatment specialist immediately if large ingested or inhaled.	
opecine treatments . No specine treatment.	nts : No specific treatmen	t	

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	ron	ו the substance or mixture	
Hazards from the substance or mixture	:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion haz In a fire or if heated, a pressure increase will occur and the container may burst, 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.	t, with g
Hazardous combustion products	:	Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides	
5.3 Advice for firefighters			
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incide 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 British standard BS EN 469 will provide a basic level of protection chemical incidents.)
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SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive 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. Collect spillage.
6.3 Methods and material for	со	ntainment 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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.
	product residue and can be nazardous. Do not reuse container.

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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

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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).

Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene 1-methoxy-2-propanol	 EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,p-or mixed isomers] Absorbed through skin. STEL 15 minutes: 441 mg/m³. TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³. STEL 15 minutes: 100 ppm. EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. STEL 15 minutes: 560 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 375 mg/m³. TWA 8 hours: 100 ppm.

Biological exposure indices

Product/ingredient name	Exposure indices
xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m- p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.
procedures Stand expos meas Guide chem atmos meas	ence should be made to monitoring standards, such as the following: British lard BS EN 689 (Workplace atmospheres - Guidance for the assessment of sure by inhalation to chemical agents for comparison with limit values and urement strategy) British Standard BS EN 14042 (Workplace atmospheres - e for the application and use of procedures for the assessment of exposure to ical and biological agents) British Standard BS EN 482 (Workplace spheres - General requirements for the performance of procedures for the urement of chemical agents) Reference to national guidance documents for bods 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	Туре	Exposure	Value	Population	Effects
øís-[4-(2,3-epoxipropoxi) phenyl]propane	DNEL	Long term Inhalation	12.25 mg/m ³	Workers	Systemic
phonyilphopane	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	Systemic
	DNEL	Long term Dermai	5.57 Ting/kg bw/day		Systemic
				population	
				[Consumers]	.
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General	Systemic
				population	
				[Consumers]	
	DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic
		0	5 5 9	population	5
				[Consumers]	
	DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic
	DINEL	Short term Oral	0.75 mg/kg bw/day		Oysternic
				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 ³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m ³	Workers	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
xylene	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL		65.3 mg/m ³		
		Long term Inhalation	0	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/m³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL				
		Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.4 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m ³	Workers	Systemic
Phenol, styrenated	DNEL	Long term Oral	0.75 mg/kg bw/day	General population	
	DNEL	Long term Dermal	0.75 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.31 mg/m ³	General population	Systemic
			0		
	DNEL	Long term Dermal	2.1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	7.4 mg/m ³	Workers	Systemic
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Systemic
ovirono monol					
oxirane, mono[(C12-14-alkyloxy)methyl] dorive	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
derivs.				Companyal many set of	Curt-
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.87 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
		5			
		5			-

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SECTION 8: Exposure controls/personal protection

DNEL Long	term Inhalation	3.6 mg/n	1 ³	Workers	Systemic
PNECs		•	L		
Product/ingredient name	Compartme	nt Detail	Value	Me	ethod Detail
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Fresh water		0.006 mg/l	Assessr	ment Factors
	Marine water		0.001 mg/l		ment Factors
	Fresh water se	diment	0.996 mg/kg	dwt Equilibri	ium Partitioning
	Marine water s	ediment	0.1 mg/kg dv	vt Equilibri	ium Partitioning
	Soil		0.196 mg/kg	dwt Equilibri	ium Partitioning
	Sewage Treatr	ment Plant	10 mg/l	Assessr	ment Factors
	Secondary Poi	soning	11 mg/kg	Assessr	ment Factors
xylene	Fresh water		0.327 mg/l	-	
	Marine water		0.327 mg/l	-	
	Sewage Treatr	ment Plant	6.58 mg/l	-	
	Fresh water se	diment	12.46 mg/kg	dwt -	
	Marine water s	ediment	12.46 mg/kg	dwt -	
	Soil		2.31 mg/kg	-	
1-methoxy-2-propanol	Fresh water		10 mg/l	Assessr	ment Factors
	Marine water		1 mg/l	Assessr	ment Factors
	Sewage Treatr			Assessr	ment Factors
	Fresh water se		41.6 mg/kg		ium Partitioning
	Marine water s	ediment	4.17 mg/kg	Equilibri	ium Partitioning
	Soil		2.47 mg/kg		ium Partitioning
trizinc bis(orthophosphate)	Fresh water		20.6 µg/l		ity Distribution
	Marine water		6.1 µg/l		ity Distribution
	Sewage Treatr				ment Factors
	Fresh water se		117.8 mg/kg		ity Distribution
	Marine water s	ediment	56.5 mg/kg c		ium Partitioning
	Soil		35.6 mg/kg c	lwt Sensitiv	ity Distribution

English (GB)	United Kingdom (UK) 8/16
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. butyl rubber
Eye/face protection <u>Skin protection</u>	: Chemical splash goggles.
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.
Individual protection meas	<u>sures</u>
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.
8.2 Exposure controls	

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SECTION 8: Exposure controls/personal 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.
: 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.
: 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
: 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

<u>Appearance</u>						
Physical state	:	Liquid				
Colour	:	Grey.				
Odour	:	Aroma	tic. [Slight]			
Odour threshold	:	Not av	ailable.			
Melting point/freezing point	:					
Initial boiling point and boiling range	:	>37.78	3°C (>100°F)		
Flammability (solid, gas)	:	liquid				
Upper/lower flammability or explosive limits		•	ailable.			
Flash point	:	Closed	d cup: 38°C	(100.4°F)		
Auto-ignition temperature	:					
Ingredient name			°C	°F	Method	
1-methoxy-2-propanol			270	518		
pH	:	Not ap	plicable.	I		
		•	•	oluble in water.		
Viscosity	:			mperature): Not ava		
			atic (room te atic (40°C):	emperature): Not av >21 mm²/s	vailable.	
Solubility(ies)	:					
Media		Res	ult			
cold water		Not :	soluble			
Miscible with water	:	No.				
Partition coefficient: n-octano water	l/ :	Not ap	plicable.			
Vapour pressure	:					

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SECTION 9: Physical and chemical properties

	V	Vapour Pressure at 20°C		V	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
1-methoxy-2-propanol	8.5	1.1					
Relative density	: 1.7						
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Dxidising properties	: Pro	duct does r	not present an oxid	dizing hazard.			
Particle characteristics							
Median particle size	: Not	applicable					

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 halogenated compounds metal oxide/oxides			

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ofs-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Oral	Rat	3550 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Dermal	Rabbit	>4000 mg/kg	-
	LD50 Oral	Rat	17100 mg/kg	_
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: There are no data available of	on the mixture itse	elf.	

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Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMAFAST 278 BASE RAL 7043	48241.2	30916.5	N/A	200.0	N/A
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	N/A
benzyl alcohol	1200	N/A	N/A	N/A	N/A
Phenol, styrenated	3550	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	N/A	N/A	N/A	N/A

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 : Not available.

: There are no data available on the mixture itself.

Eyes

Skin

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

Respiratory **Sensitisation**

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

Conclusion/Summary

Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Chapific torget ergen texi	aity (aingle avecause)

Specific target organ toxicity (single exposure)

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

Not available.

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Product/i	ngredient name	Result
xylene		ASPIRATION HAZARD - Category
nformation on likely routes f exposure	: Not available.	
otential acute health effects	2	
Eye contact	: Causes serious eye irrita	tion.
Inhalation	: No known significant effe	ects or critical hazards.
Skin contact	: Causes skin irritation. Ma	ay cause an allergic skin reaction.
Ingestion	: No known significant effe	ects or critical hazards.
symptoms related to the phy	vsical, chemical and toxicol	ogical characteristics
Eye contact	: Adverse symptoms may pain or irritation watering redness	include the following:
Inhalation	: Adverse symptoms may i reduced foetal weight increase in foetal deaths skeletal malformations	include the following:
Skin contact	: Adverse symptoms may i irritation redness reduced foetal weight increase in foetal deaths skeletal malformations	include the following:
Ingestion	: Adverse symptoms may i reduced foetal weight increase in foetal deaths skeletal malformations	include the following:

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

Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	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.
Other information	:	Not available.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ቓís-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Phenol, styrenated	Acute EC50 3.8 mg/l	Daphnia	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia - Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish - Goldfish	96 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	EC50 844 mg/l	Algae	72 hours
	EC50 7.2 mg/l	Daphnia	48 hours
	LC50 >1.8 mg/l	Fish	96 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Phenol, styrenated oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	OECD 301F OECD 301F Ready Biodegradability - Manometric Respirometry Test	7 % - Not readily - 28 days 87 % - Readily - 28 days	-	-

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
b s-[4-(2,3-epoxipropoxi) phenyl]propane xylene benzyl alcohol Phenol, styrenated oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	- - - -	-	Not readily Readily Readily Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✓ylene benzyl alcohol 1-methoxy-2-propanol oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.12 0.87 <1 3.77	7.4 to 18.5 - - 160 to 263	Low Low Low 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.

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SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

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

Hazardous waste

Waste catalogue

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
Packaging		
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	
Type of packaging	Waste catalogue	
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.	

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN 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	111	111	
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(bis-[4- (2,3-epoxipropoxi) phenyl]propane)	Not applicable.

Additional information

Conforms to Reg	gulation (EC) No. 1907/2006 (REACH),	, Annex II, as amended by UK REA	CH Regulation SI 2019/758
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SECTION 1	14: Transport information		
ADR/RID	: The environmentally hazardous s ≤5 kg.	ubstance mark is not required wher	n transported in sizes of ≤5 L or
Tunnel code	: (D/E)		
ADN	: The environmentally hazardous si ≤5 kg.	ubstance mark is not required wher	n transported in sizes of ≤5 L or
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.		
ΙΑΤΑ	: The environmentally hazardous si regulations.		•
14.6 Special pr user		ser's premises: always transport in Ensure that persons transporting th dent or spillage.	
14.7 Transport according to IN instruments			

SECTION 15: Regulatory information

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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Explosive precursors : Not applicable.

Ozone depleting substances

Not 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)
GMAFAST 278 BASE RAL 7043	3
	30
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	30

Labelling

: Restricted to professional users.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

P5c E2			

SECTION 16: Other information

Indicates information that has changed from previously issued version.

acronyms GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 201 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available	ations 2019
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SECTION 16: Other information

PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
VPVR = Very Persistent and Very Bioaccumulative

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification	
Fam. Liq. 3, H226	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	Calculation method	
Repr. 1B, H360F	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

Full text of abbreviated H statements

<mark>₩</mark> 226	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.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H360F	May damage fertility.	
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

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

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Prepared by	: EHS
Version	: 1.02

Disclaimer

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