# SAFETY DATA SHEET

Date of issue/Date of revision

: 3 June 2024

Version : 1.05



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

1.1 Product identifier	
Product name	: SIGMAFAST 278 BASE RAL 9001
Product code	: 00440755
Product type	: Liquid.
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 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 UK CLP/GHS Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 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.

2.2 Label elements Hazard pictograms



Signal word

: Danger

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758		
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SECTION 2: Hazar	ds identification	
Hazard statements	: Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.	
Precautionary statemen	<u>ts</u>	
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. Avoid breathing vapour.	

Response	: Collect spillage.
Storage	: Not applicable.

- Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- P280, P210, P273, P261, P391, P501 **Supplemental label** : Contains epoxy constituents. May produce an allergic reaction. elements **Annex XVII - Restrictions** : Not applicable.
- on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements **Containers to be fitted** : Not applicable. with child-resistant fastenings
- Tactile warning of danger : Not applicable.
- 2.3 Other hazards **Product meets the criteria** 
  - : This mixture does not contain any substances that are assessed to be a PBT or a for PBT or vPvB according vPvB.
  - 1907/2006, Annex XIII Other hazards which do

not result in classification

to Regulation (EC) No.

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

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

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	%	Classification	Туре
øs-[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]
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	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
xylene	REACH #:	≥1.0 - ≤5.0	Flam. Liq. 3, H226	[1] [2]
English (GB)	United F	Kingdom (UK)		2/17

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SECTION 3: Composition	on/information on i	ngredients		
	01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7		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	
Phenol, styrenated	EC: 262-975-0 CAS: 61788-44-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
oxirane, mono[(C12-14-alkyloxy) methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤1.0	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Octadecanamide, N, N'-1,6-hexanediylbis[12-hydroxy-	CAS: 55349-01-4	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	[1]
			See Section 16 for the full text of the H statements declared	

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. <u>Type</u>

above.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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	<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	<ul> <li>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.</li> </ul>
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>

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758
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<b>SECTION 4: First aid</b>	d measures
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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 symptor	ns and effects, both acute and delayed
Potential acute health effect	<u>ts</u>
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/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
	liate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	iting 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	from the substance or mixture
Hazards from the	: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion
substance or mixture	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 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 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.

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SECTION 5: Firefighting measures			_

#### measures in 5. Filenynung

Special protective : Fire-fighters should wear appropriate protective equipment and self-contained equipment for fire-fighters

breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# **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. 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.

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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. 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
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p-
	or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices	
vylene	XYLENES	
<b>Recommended monitoring</b> procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		

#### **DNELs/DMELs**

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

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benzyl alcohol       DNEL       Lo         DNEL       Lo         DNEL       Lo         DNEL       Lo         DNEL       Lo         DNEL       Si         DNEL       Lo         DNEL       Si         DNEL       Si         DNEL       Si         DNEL       Si         DNEL       Si      <	ong term Oral ong term Dermal ong term Inhalation ong term Dermal	4 mg/kg bw/day 4 mg/kg bw/day 5.4 mg/m³	General population General population General population	Systemic Systemic Systemic
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kylene DNEL Lo DNEL SI DNEL SI DNEL SI DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL SI DNEL SI DNEL SI		20 mg/kg bw/day	General population	Systemic
xylene DNEL SI DNEL SI DNEL SI DNEL LC DNEL LC DNEL LC DNEL LC DNEL LC DNEL LC DNEL LC DNEL SI DNEL SI DNEL SI	hort term Dermal	20 mg/kg bw/day	General population	Systemic
xylene DNEL Si DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Si DNEL Si	ong term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic
kylene DNEL Si DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Si DNEL Si	hort term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic
kylene DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL S DNEL S	hort term Dermal	40 mg/kg bw/day	Workers	Systemic
DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL Lo DNEL S DNEL S DNEL S	hort term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic
DNEL La DNEL La DNEL La DNEL La DNEL La DNEL La DNEL La DNEL S DNEL SI DNEL SI	ong term Oral	5 mg/kg bw/day	General population	Systemic
DNEL La DNEL La DNEL La DNEL La DNEL La DNEL La DNEL SI DNEL SI	ong term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
DNEL La DNEL La DNEL La DNEL La DNEL S DNEL S DNEL S	ong term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
DNEL Lo DNEL Lo DNEL Lo DNEL S DNEL S DNEL S	ong term Dermal	125 mg/kg bw/day	General population	Systemic
DNEL Lo DNEL Lo DNEL SI DNEL SI	ong term Dermal	212 mg/kg bw/day	Workers	Systemic
DNEL LO DNEL SI DNEL SI	ong term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
DNEL SI DNEL SI	ong term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
DNEL S				•
	hort term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	hort term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	hort term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	hort term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
	ong term Oral	0.75 mg/kg bw/day	General population	Systemic
	ong term Dermal	0.75 mg/kg bw/day	General population	Systemic
	ong term Inhalation	1.31 mg/m <sup>3</sup>	General population	Systemic
	ong term Dermal	2.1 mg/kg bw/day	Workers	Systemic
DNEL La	ong term Inhalation	7.4 mg/m <sup>3</sup>	Workers	Systemic
		33 mg/kg bw/day	General population	Systemic
	ong term Oral	43.9 mg/m <sup>3</sup>	General population	Systemic
	-		General population	Systemic
	ong term Inhalation			Systemic
	ong term Inhalation ong term Dermal	78 mg/kg bw/day		
	ong term Inhalation ong term Dermal ong term Dermal	78 mg/kg bw/day 183 mg/kg bw/day	Workers	Systemic
	ong term Inhalation ong term Dermal	78 mg/kg bw/day		Systemic Local

<mark>Code</mark> SIGMAFAST	: 00440755 278 BASE RAL 9001	Date of issue/Date of revision	: 3 June 2024
SECTION	8: Exposure controls/pers	sonal protection	

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	DNEL	Short term Inhalation	553.5 mg/m <sup>3</sup>	Workers	Systemic
oxirane, mono[	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
(C12-14-alkyloxy)methyl]		_			-
derivs.					
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.6 mg/m <sup>3</sup>	Workers	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
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
	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	-
1-methoxy-2-propanol	Fresh water	10 mg/l	Assessment Factors
	Marine water	1 mg/l	Assessment Factors
	Sewage Treatment Plant	100 mg/l	Assessment Factors
	Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning
	Marine water sediment	4.17 mg/kg	Equilibrium Partitioning
	Soil	2.47 mg/kg	Equilibrium Partitioning
trizinc bis(orthophosphate)	Fresh water	20.6 µg/l	Sensitivity Distribution
	Marine water	6.1 µg/l	Sensitivity Distribution
	Sewage Treatment Plant	100 µg/l	Assessment Factors
	Fresh water sediment	117.8 mg/kg dwt	Sensitivity Distribution
	Marine water sediment	56.5 mg/kg dwt	Equilibrium Partitioning
	Soil	35.6 mg/kg dwt	Sensitivity Distribution

#### 8.2 Exposure controls **Appropriate engineering** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation controls 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 **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. **Skin protection** Hand protection 2 8/17 English (GB) United Kingdom (UK)

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# **SECTION 8: Exposure controls/personal 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
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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

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

### 9.1 Information on basic physical and chemical properties

Appearance         Physical state       : Liquid.         Colour       : Not available.         Odour       : Characteristic.         Odour threshold       : Not available.         Melting point/freezing point       : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]pro	
Colour       : Not available.         Odour       : Characteristic.         Odour threshold       : Not available.         Melting point/freezing point       : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The	
Odour       : Characteristic.         Odour threshold       : Not available.         Melting point/freezing point       : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The second se	
Odour threshold: Not available.Melting point/freezing point: May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The second se	
Melting point/freezing point : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) The	
Weighted average: -26.34°C (-15.4°F)	
Initial boiling point and : >37.78°C (>100°F) boiling range	
Flammability (solid, gas) : liquid	
Upper/lower flammability or : Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol) explosive limits	
Flash point : Closed cup: 19°C (66.2°F)	
Auto-ignition temperature :	
Ingredient name °C °F Method	
1-methoxy-2-propanol 270 518	

English (GB)

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# **SECTION 9:** Physical and chemical properties

pH		applicable applicable	. insoluble in water.			
Viscosity		••	°C): >21 mm²/s			
Solubility(ies)	:					
Media	R	esult				
cold water	No	ot soluble				
Miscible with water	: No.					
Partition coefficient: n-oc water	tanol/ : Not	applicable				
/apour pressure	:					
	Va	apour Pres	ssure at 20°C	V	apour pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>et</b> nylbenzene	9.30076	1.2				
Relative density	: 1.43		Į	I	1	I
Vapour density			n value: 11.7 (Air = rage: 8.33 (Air = 1)		3-epoxiprop	oxi)phenyl]propa
Explosive properties		•	self is not explosive with air is possible		ation of an e	explosible mixture
Oxidising properties Particle characteristics	: Prod	duct does i	not present an oxid	izing hazard.		

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 Code : 00440755 SIGMAFAST 278 BASE RAL 9001 Date of issue/Date of revision

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# **SECTION 11: Toxicological information**

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	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m <sup>3</sup>	4 hours
-	mists		J J	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/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[	LD50 Oral	Rat	17100 mg/kg	-
(C12-14-alkyloxy)methyl]				
derivs.				
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
,	mists		-	
	LD50 Oral	Rat	>5000 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMAFAST 278 BASE RAL 9001	49251.7	68533.5	N/A	213.7	60.1
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	N/A
benzyl alcohol	1230	N/A	N/A	N/A	1.5
xylene	4300	1700	N/A	11	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
øis-[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.				
Skin	: There are no data available on the mixture itself.				
Eyes	: There are no data available on the mixture itself.				

: There are no data available on the mixture itself.

Respiratory Sensitisation Code : 00440755 SIGMAFAST 278 BASE RAL 9001 Date of issue/Date of revision

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# **SECTION 11: Toxicological information**

	•				
Product/ingredient name	Route of exposure	Species	Result		
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitising		
Phenol, styrenated	skin	Mouse	Sensitising		
oxirane, mono[	skin	Guinea pig	Sensitising		
(C12-14-alkyloxy)methyl] derivs.					
Conclusion/Summary	<u> </u>				
Skin : There are no data available on the mixture itself.					
and the second se					
<u>Mutagenicity</u>					
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.					
Carcinogenicity					
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.					
Reproductive toxicity					
Conclusion/Summary	: There are no dat	a available on the mixture itself.			
<u>Teratogenicity</u>					
Conclusion/Summary	: There are no dat	a available on the mixture itself.			
• • • • • • • • • • • • • • • • • • •					

#### 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

### Specific target organ toxicity (repeated exposure)

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

#### **Aspiration hazard**

Product/ingredient name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1

### Information on likely routes : Not available.

of exposure

#### 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.

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

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.

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Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Delayed and immediate effect	cts 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 eff	<u>ects</u>
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.

# **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 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
5	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
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.	LC50 >100 mg/l	Fish - Trout	96 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
· · · /	Chronic NOEC 0.026 mg/l	Fish	30 days

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene Phenol, styrenated	- OECD 301F	79 % - Readily - 10 days 7 % - Not readily - 28 days	-	-
Conclusion/Summary	: Not available.	·		

English (	

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# **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Not readily
ethylbenzene benzyl alcohol	-	-	Readily Readily
xylene Phenol, styrenated	-	-	Readily Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
ethylbenzene	3.6	79.43	Low	
benzyl alcohol	0.87	-	Low	
xylene	3.12	7.4 to 18.5	Low	
1-methoxy-2-propanol	<1	-	Low	
oxirane, mono[	3.77	-	Low	
(C12-14-alkyloxy)methyl]				
derivs.				

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

# **SECTION 13: Disposal considerations**

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

### 13.1 Waste treatment methods

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

#### Waste catalogue

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

Container	15 01 06	mixed packaging

English (	

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### **SECTION 13: Disposal considerations**

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	ΙΑΤΑ
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	II	11	11	II
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

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
 Tunnel code : (D/E)
 ADN : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
 IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
 IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**14.6 Special precautions 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 Transport in bulk: Not available.according to IMOinstruments

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

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.

### Ozone depleting substances

Not listed.

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# SECTION 15: Regulatory information

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c E2

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration DRD = DEACL Descietation Number</li> </ul>
	RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H373May cause damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H413May cause long lasting harmful effects to aquatic life.		
H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H373May cause damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H225	Highly flammable liquid and vapour.
H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H373May cause damage to organs through prolonged or repeated exposure.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H226	Flammable liquid and vapour.
<ul> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H32 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H302	Harmful if swallowed.
<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H304	May be fatal if swallowed and enters airways.
<ul> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H312	Harmful in contact with skin.
<ul> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H315	Causes skin irritation.
<ul> <li>Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H317	May cause an allergic skin reaction.
<ul> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H319	Causes serious eye irritation.
<ul> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H332	Harmful if inhaled.
<ul> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>	H335	May cause respiratory irritation.
H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H336	May cause drowsiness or dizziness.
H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H373	May cause damage to organs through prolonged or repeated exposure.
H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.	H400	Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.	H410	Very toxic to aquatic life with long lasting effects.
	H411	Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.	H412	Harmful to aquatic life with long lasting effects.
	H413	May cause long lasting harmful effects to aquatic life.

#### Full text of classifications

<b>3</b>		
Code : 0044	0755 Date of issue/Date of revisior	1 : 3 June 2024
SIGMAFAST 278 BA	ASE RAL 9001	
SECTION 16: 0	Other information	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4	

ASPIRATION HAZARD - Category 1

FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3

SKIN SENSITISATION - Category 1

: 3 June 2024

: 15 May 2024

: EHS

: 1.05

SKIN SENSITISATION - Category 1B

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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Asp. Tox. 1

Eye Irrit. 2

Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2

Skin Sens. 1

STOT RE 2 STOT SE 3

**History** 

revision

Version

**Prepared by** 

Skin Sens. 1B

Date of issue/ Date of

Date of previous issue

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SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3