Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Date of issue/Date of revision

: 23 October 2023

Version : 1.01



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

1.1 Product identifier	
Product name	: SIGMAFAST 278 BASE BLACK
Product code	: 00382829
Product description	1 · · · · · · · · · · · · · · · · · · ·
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

: Product.Stewardship.EMEA@ppg.com

responsible for this SDS

1.4 Emergency telephone number

<u>Supplier</u>

+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. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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



United Kingdom (UK)

Code : 00382829 SIGMAFAST 278 BASE BLA	Date of issue/Date of revision	: 23 October 2023
	identification	

SECTION 2: Hazards identification

	_	
Signal word		Danger
Hazard statements	÷	Flammable liquid and vapour.
		Causes severe skin burns and eye damage.
		May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child.
		May cause damage to organs through prolonged or repeated exposure.
		Very 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. Do not breathe vapour.
Response	:	Collect spillage.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P280, P210, P273, P260, P391, 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	:	Not applicable.
Special packaging requirem	er	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Causes digestive tract burns.

SECTION 3: Composition/information on ingredients

N	lixture			
3.2 Mixtures :				
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]
crystalline silica, respirable powder (<10 microns) 4-nonylphenol, branched	EC: 238-878-4 CAS: 14808-60-7 REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≥5.0 - <10 ≥5.0 - ≤10	STOT RE 1, H372 (inhalation) Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1] [2] [1] [3]
English (GB)	United Ki	ingdom (UK)		2

Code : 00382829 SIGMAFAST 278 BASE BLACK	Date o	f issue/Date of revis	ion : 23 October 20	023
SECTION 3: Composition	on/information on	ingredients		
xylene	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]
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]
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119978273-29 EC: 288-306-2 CAS: 85711-46-2	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	[1]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071	[1] [2]
			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.

above.

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

SUB codes represent substances without registered CAS Numbers.

Code	: 00382829	Date of issue/Date of revision	: 23 October 2023
SIGMAFAST	278 BASE BLACK		

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects	
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs/sympto	oms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immedia	te 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.

Conforms to Regulation (EC) N	I O. 1	907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758
Code : 00382829 SIGMAFAST 278 BASE BLA	ск	Date of issue/Date of revision : 23 October 2023
SECTION 5: Firefigh	tin	g 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	from	the substance or mixture
Hazards from the substance or mixture	:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very 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.
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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	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

Code	: 00382829	Date of issue/Date of revision	: 23 October 2023
SIGMAFAST	278 BASE BLACK		

SECTION 6: Accidental release measures

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	: See Section 1 for emergency contact information.
sections	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 breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional

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.

information on hygiene measures.

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

Code	: 00382829	Date of issue/Date of revision	: 23 October 2023
SIGMAFAST	278 BASE BLACK		

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
rystalline silica, respirable powder (<10 microns)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica,
	respirable crystalline respirable fraction]
	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable fraction
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p-
	or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m³ 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 ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitiser.
	STEL: 3 mg/m ³ 15 minutes.
	TWA: 1 mg/m ³ 8 hours.
Pielegies eveneurs indices	TWA: 1 mg/m³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
xylene	XYLENES
	Id be made to appropriate monitoring standards. Reference to be documents for methods for the determination of hazardous also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects		
s-[4-(2,3-epoxipropoxi)	DNEL	Long term Inhalation	12.25 mg/m ³	Workers	Systemic		
	DNEL	Short term Inhalation	12.25 mg/m ³	Workers	Systemic		
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic		
	DNEL	Short term Dermal	8.33 mg/kg bw/day	Workers	Systemic		
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General	Systemic		
		C C		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		
				population			
				[Consumers]			
	DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic		
				population			
				[Consumers]	_		
	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic		
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemic		
	DNEL	Long term Inhalation	0.87 mg/m ³	General population	Systemic		
	DNEL	Long term Inhalation	4.93 mg/m ³	Workers	Systemic		
4-nonylphenol, branched	DNEL	Long term Oral	0.08 mg/kg bw/day	General population	Systemic		
	DNEL	Short term Oral	0.4 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Inhalation	0.4 mg/m ³	General population	Systemic		
	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Systemic		
	DNEL	Short term Inhalation	0.8 mg/m ³	General population	Systemic		
	DNEL	Short term Inhalation	1 mg/m³	Workers	Systemic		
	DNEL	Long term Dermal	3.8 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Dermal	7.5 mg/kg bw/day	Workers	Systemic		
English (CP) United Kingdom (UK) 7/18							

Code : 00382829 SIGMAFAST 278 BASE BLACK Date of issue/Date of revision : 23 October 2023

SECTION 8: Exposure controls/personal protection

	-	• •			
	DNEL	Short term Dermal	7.6 mg/kg bw/day	General population	
	DNEL	Short term Dermal	15 mg/kg bw/day	Workers	Systemic
xylene	DNEL	Short term Inhalation	260 mg/m ³	General population	-
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemi
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemi
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	DNEL	Short term Inhalation	260 mg/m ³	General population	
	DNEL	Short term Inhalation	260 mg/m ³	General population	
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	65.3 mg/m ³	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	212 mg/kg bw/day 221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	
T-methoxy-z-propanol	DNEL	-	43.9 mg/m ³		-
		Long term Inhalation	-	General population	-
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemi
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemi
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemi
	DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Systemic
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.87 mg/m^3	General population	Systemi
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemi
	DNEL	Long term Inhalation	3.6 mg/m^3	Workers	-
trizina his(orthonhosphata)	DNEL	0			Systemi
trizinc bis(orthophosphate)	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	-
		Long term Inhalation	2.5 mg/m ³	General population	-
	DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemi
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemi
Fatty acids, C14-18 and C16-18-unsatd., maleated	DNEL	Long term Oral	1.5 mg/kg bw/day	General population	-
	DNEL	Long term Dermal	1.5 mg/kg bw/day	General population	Systemi
	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemi
maleic anhydride	DNEL	Long term Inhalation	0.4 mg/m ³	Workers	Systemi
	DNEL	Long term Inhalation	0.4 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	0.081 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	0.081 mg/m³	Workers	Systemi
	DNEL	Short term Inhalation	0.2 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.2 mg/m ³	Workers	Systemi
	DNEL	Long term Inhalation	0.05 mg/m ³	General population	-
	DNEL	Long term Oral	0.06 mg/kg bw/day	General population	Systemi
	DNEL	Long term Inhalation	0.08 mg/m ³	General population	Local
	DNEL	Short term Oral	0.1 mg/kg bw/day	General population	Systemi
	DNEL	Short term Dermal	0.1 mg/kg bw/day	General population	Systemi
	DNEL	Long term Dermal	0.1 mg/kg bw/day	General population	Systemi
			0.2 mg/kg bw/day	Workers	Systemi
	DNEL DNEL	Short term Dermal Long term Dermal	0.2 mg/kg bw/day	Workers	Systemi

PNECs

Code : 00382829 SIGMAFAST 278 BASE BLACK Date of issue/Date of revision : 23 October 2023

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail	Value	Method Detail
s-[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
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
maleic anhydride	Fresh water	0.1 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant		Assessment Factors
	Fresh water sediment	0.334 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.033 mg/kg dwt	Equilibrium Partitioning
	Soil	0.042 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls		
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measured	ures	
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 Skin protection	:	Chemical splash goggles and face shield.
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.

Code : 00382829	Date of issue/Date of revision	: 23 October 2023
SIGMAFAST 278 BASE BLACK		

SECTION 8: Exposure controls/personal protection

		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 anti-static 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	: L	_iquid.		
Colour	: E	Black.		
Odour	: /	Aromatic. [Slight]		
Odour threshold	: 1	Not available.		
Melting point/freezing point	Ł		he following ingrea	emperature: 8 to 12°C (46.4 to 53.6°F) This is dient: bis-[4-(2,3-epoxipropoxi)phenyl]propane
Initial boiling point and boiling range		>37.78°C (>100°F)		
Flammability (solid, gas)	: liquid			
Upper/lower flammability or explosive limits			nge: Lower: 1.48%	• Upper: 13.74% (1-methoxy-2-propanol)
Flash point	: (Closed cup: 38°C (100.4°F)	
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
1-methoxy-2-propanol		270	518	
Decomposition temperature	:			
рН	: 1	Not applicable.		
	1	Not applicable. inso	oluble in water.	
Viscosity	: ł	Kinematic (40°C): >	•21 mm²/s	
Solubility(ies)	1			
Media		Result		
cold water		Not soluble		
Miscible with water	: 1	No.		
English (GB)		Uni	ted Kingdom (Uk	() 10/18

Code : 00382829 Date of issue/Date of revision

: 23 October 2023

SIGMAFAST 278 BASE BLACK

SECTION 9: Physical and chemical properties

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Partition coefficient: n-octanol/ : Not applicable. water

Vapour pressure

	Va	apour Pres	sure 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	: 1.65	5	Į				
/apour density			value: 11.7 (Air = age: 8.76 (Air = 1		-epoxiprop	oxi)phenyl]propane).	
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 Particle characteristics	: Pro	duct does r	not present an oxid	lizing 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

Product/ingredient name	Result	Species	Dose	Exposure
pís-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/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	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
English (GB)	United K	ingdom (UK)		11

Code : 00382829	Date of issue/Date of revision	: 23 October 2023
SIGMAFAST 278 BASE BLACK		

SECTION 11: Toxicological information

	LD50 Oral	Rat	400 mg/kg	-
Conclusion/Summary Acute toxicity estimates	There are no data available on t	the mixture itself		

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 BLACK	18590.0	31726.8	N/A	205.3	N/A
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
xylene	4300	1700	N/A	11	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
maleic anhydride	400	2620	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 conjunctivaeRabbit0.424 hours-		-		
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-
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.				
Respiratory	: There are no data available on	: There are no data available on the mixture itself.			

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
s-[4-(2,3-epoxipropoxi)	skin	Mouse	Sensitising
phenyl]propane oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitising
Conclusion/Summary	•	•	
Skin	: There are no dat	ta available on the mixture itself.	
Respiratory	: There are no dat	ta available on the mixture itself	
Mutagenicity			
Conclusion/Summary	: There are no dat	ta 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 dat	a available on the mixture itself.	

Specific target organ toxicity (single exposure)

Code	: 00382829	Date of issue/Date of revision	: 23 October 2023
SIGMAFAST	278 BASE BLACK		

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
xylene 1-methoxy-2-propanol	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
Specific target organ toxicity (repeated exposure)	·	·	·
Product/ingredient name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns) maleic anhydride	Category 1 Category 1	inhalation inhalation	- respiratory system

Aspiration hazard

	Product/ingredient name	Result
xy	ylene	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available. of exposure

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.

Code	: 00382829	Date of issue/Date of revision	: 23 October 2023
SIGMA	FAST 278 BASE BLACK		

SECTION 11: Toxicological information

Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure. 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	: Suspected of damaging fertility. Suspected of damaging the unborn child.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure 48 hours	
øís-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>		
	Chronic NOEC 0.3 mg/l	Daphnia	21 days	
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Water flea - <i>Moina macrocopa</i>	48 hours	
	Acute LC50 0.221 mg/l	Fish	96 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	

12.2 Persistence and degradability

Conclusion/Summary : Not available.

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
-nonylphenol, branched xylene	5.4 3.12	251.19 7.4 to 18.5	Low Low
1-methoxy-2-propanol oxirane, mono[(C12-14-alkyloxy)methyl]	<1 3.77	-	Low
derivs. maleic anhydride	-2.78	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) Mobility : Not available.

: Not available.

English (GB)

United Kingdom (UK)

Code: 00382829Date of issue/Date of revision: 23 October 2023SIGMAFAST 278 BASE BLACK

SECTION 12: Ecological information

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

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D	ro	d		ot
г	ΙU	u	u	Lι

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			
Special precautions	taken when Empty cont residues ma container. thoroughly	al and its container must be disposed of in a safe way. Care should be a handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with ways, drains and sewers.		

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN3470	UN3470	UN3470	UN3470
14.2 UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
14.3 Transport hazard class(es)	8 (3)	8 (3)	8 (3)	8 (3)
14.4 Packing group	II	11	11	11
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
English (GB)		United Kingdom	(UK)	15/18

Code : 00382829 SIGMAFAST 278 BASE BLACK		Date of issue/Date of revision : 23 October 2023			
SECTION 1	14: Transport informa	ation			
Marine polluta substances	nt Not applicable.	Not applicable.	(bis-[4- (2,3-epoxipropoxi) phenyl]propane, 4-nonylphenol, branched)	Not applicable.	
Additional info	ormation				
ADR/RID	: The environmentally haza ≤5 kg.	rdous substance mark i	s not required when transpo	orted in sizes of ≤5 L or	
Tunnel code	: (D/E)				
ADN	: The environmentally hazar ≤5 kg.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or			
IMDG	: The marine pollutant mark	The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.			
ΙΑΤΑ	: The environmentally hazar regulations.	The environmentally hazardous substance mark may appear if required by other transportation regulations.			
14.6 Special pr user	upright and s	-	: always transport in closed sons transporting the produc		
14.7 Transport according to IN instruments		e.			

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

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

Ozone depleting substances

Not listed.

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

Code	: 00382829	Date of issue/Date of revision	: 23 October 2023
SIGMAFAST	278 BASE BLACK		

SECTION 15: Regulatory information

Category

P5c

E1

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Quartz (SiO2)		silica, respirable crystalline respirable fraction	Carc.	-

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
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 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
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361fd	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
EUH071	Corrosive to the respiratory tract.

Code : 00382829

Date of issue/Date of revision

: 23 October 2023

SIGMAFAST 278 BASE BLACK

SECTION 16: Other information

Full text of classifications

Date of issue/ Date or revision	f : 23 October 2023	
History		
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1	
Skin Sens. 1B	SKIN SENSITISATION - Category 1B	
Skin Sens. 1A	SKIN SENSITISATION - Category 1A	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1	
Repr. 2	REPRODUCTIVE TOXICITY - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Asp. Tox. 1 Eye Dam. 1	ASPIRATION HAZARD - Category 1	
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	

revision	
Date of previous issue	: 9 November 2022
Prepared by	: EHS
Version	: 1.01
Prepared by	: EHS

Disclaimer

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