SAFETY DATA SHEET

Date of issue/Date of revision

Version : 16 December 2023

Europe

: 4.06

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

1.1 Product identifier

Product name	: SIGMALINE 855 REP HARDENER		
Product code	: 00175147		
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 t	he substance or mi	xture	
Product definition	: Mixture		
Classification accord	ding to Regulation	(EC) No. 12	72/2008 [CLP/GHS]
Flam. Liq. 3, H226			
Acute Tox. 4, H332			
Skin Irrit. 2, H315			
Eye Irrit. 2, H319			
Resp. Sens. 1, H334			
Skin Sens. 1, H317			
Carc. 2, H351			
STOT SE 3, H335			
STOT RE 2, H373			

English (US)

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SECTION 2: Hazards identification

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

2.2 Label elements

S

Hazard pictograms



Signal word	: Danger
Hazard statements	: Flammable liquid and vapor.
	Causes skin irritation.
	May cause an allergic skin reaction.
	Causes serious eye irritation.
	Harmful if inhaled.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May cause respiratory irritation.
	Suspected of causing cancer.
	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements Prevention

		heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor.
Response	:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Storage	:	Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P280, P210, P260, P304 + P340, P403 + P233, P501
Hazardous ingredients	:	Voluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol Isocyanic acid, polymethylenepolyphenylene ester 4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate 2,2'-methylenediphenyl diisocyanate m-tolylidene diisocyanate
Supplemental label elements	-	Contains isocyanates. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	As from August 24 2023 adequate training is required before industrial or professional use.
Special packaging requirem	nen	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

: Wear protective gloves, protective clothing and eye or face protection. Keep away from

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SECTION 2: Hazards identification		

2.3 Other hazards

Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	% by	Classification	Specific Conc.	
		weight		Limits, M-factors and ATEs	Туре
oluene diisocyanate, ligomeric reaction products with 2,2'- pxydiethanol and propylidenetrimethanol	EC: 500-120-8 CAS: 53317-61-6	≥25 - ≤50	Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
socyanic acid, olymethylenepolyphenylene ester	REACH #: 01-2119457024-46 CAS: 9016-87-9	≥25 - ≤50	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (inhalation)	ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1]
,4'-methylenediphenyl liisocyanate	REACH #: 01-2119457014-47 EC: 202-966-0 CAS: 101-68-8 Index: 615-005-00-9	≥10 - ≤25	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	ATE [Inhalation (dusts and mists)] = 1.5 mg/l Skin Irrit. 2, H315: C \geq 5% Eye Irrit. 2, H319: C \geq 5% Resp. Sens. 1, H334: C \geq 0.1% STOT SE 3, H335: C \geq 5%	[1] [2]
emethoxy-1-methylethyl Icetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
ylene	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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
English (US)	<u> </u>	1	Europe	1	3/20

SIGMALINE 855 REP HARD	ENER				
SECTION 3: Compo	sition/informat	tion on i	ngredients		
o-(p-isocyanatobenzyl) phenyl isocyanate	REACH #: 01-2119480143-45 EC: 227-534-9 CAS: 5873-54-1 Index: 615-005-00-9	≥5.0 - <10	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	ATE [Inhalation (dusts and mists)] = 1.5 mg/l Skin Irrit. 2, H315: C \geq 5% Eye Irrit. 2, H319: C \geq 5% Resp. Sens. 1, H334: C \geq 0.1% STOT SE 3, H335: C \geq 5%	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
2,2'-methylenediphenyl diisocyanate	REACH #: 01-2119927323-43 EC: 219-799-4 CAS: 2536-05-2 Index: 615-005-00-9	<1.0	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	ATE [Inhalation (dusts and mists)] = 1.5 mg/l Skin Irrit. 2, H315: C \geq 5% Eye Irrit. 2, H319: C \geq 5% Resp. Sens. 1, H334: C \geq 0.1% STOT SE 3, H335: C \geq 5%	[1]
m-tolylidene diisocyanate	REACH #: 01-2119454791-34 EC: 247-722-4 CAS: 26471-62-5 Index: 615-006-00-4	≤0.30	Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (vapours)] = 0.24 mg/l Resp. Sens. 1, H334: C ≥ 0.1%	[1]

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

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

Code

: 00175147

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this 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

4.2 WOSt Important Syn	iptoms and enects, both acute and delayed
Potential acute health	<u>effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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/	<u>symptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any im	mediate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising fi	om the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapor. 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.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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 spilled 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).
6.3 Methods and materials fo	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

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SECTIO	SECTION 6: Accidental release measures						
Large spil	II	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.					
Special pr	rovisions	: 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.					
6.4 Referent sections	nce to other	 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

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SECTION 7: Handling and storage

containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Precautions should be taken to minimize exposure to atmospheric humidity or water. CO_2 will be formed, which, in closed containers, could result in pressurization.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
4'-methylenediphenyl diisocyanate	ACGIH TLV (United States, 1/2023).
	TWA: 0.005 ppm 8 hours.
	ACGIH TLV (United States, 1/2007).
	TWA: 0.05 mg/m ³ 8 hours.
2-methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 550 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 275 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
procedures Standard E by inhalatio	should be made to monitoring standards, such as the following: European N 689 (Workplace atmospheres - Guidance for the assessment of exposure n to chemical agents for comparison with limit values and measurement
application	uropean Standard EN 14042 (Workplace atmospheres - Guide for the and use of procedures for the assessment of exposure to chemical and gents) European Standard EN 482 (Workplace atmospheres - General

of hazardous substances will also be required.

DNELs

requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Socyanic acid, polymethylenepolyphenylene	DNEL	Long term Inhalation	0.05 mg/m³	Workers	Local
ester	DNEL	Short term Inhalation	0.1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0.025 mg/m ³	General	Local
			Ū	population	
				[Consumers]	
	DNEL	Short term Inhalation	0.05 mg/m³	General	Local
				population [Consumers]	
4,4'-methylenediphenyl	DNEL	Long term Inhalation	0.05 mg/m ³	Workers	Local
diisocyanate	DITE	Long tonn innaidton	0.00 mg/m	The monte	Loodi
5	DNEL	Short term Inhalation	0.1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0.025 mg/m ³	General	Local
				population	
		Oh aut tauna luib alatian	0.05	[Consumers]	1 1
	DNEL	Short term Inhalation	0.05 mg/m³	General population	Local
				[Consumers]	
	DNEL	Short term Inhalation	0.1 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.05 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	50 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	28.7 mg/cm ²	Workers	Local
	DNEL	Short term Dermal	25 mg/kg bw/day	General	Systemic
				population	
	DNEL	Short term Inhalation	0.05 mg/m³	[Consumers] General	Systemic
			0.00 mg/m	population	Oysternie
				[Consumers]	
	DNEL	Short term Oral	20 mg/kg bw/day	General	Systemic
				population	
		Oh aut taiwa Daiwa al	47.0	[Consumers]	1 1
	DNEL	Short term Dermal	17.2 mg/cm ²	General population	Local
				[Consumers]	
	DNEL	Long term Inhalation	0.025 mg/m ³	General	Systemic
			g,	population	-,
				[Consumers]	
	DNEL	Long term Inhalation	0.025 mg/m ³	General population	Local
	DNEL	Short term Inhalation	0.05 mg/m ³	General population	Local
	DNEL DNEL	Long term Inhalation Short term Inhalation	0.05 mg/m ³ 0.1 mg/m ³	Workers Workers	Local Local
2-methoxy-1-methylethyl	DNEL	Long term Inhalation	33 mg/m ³	General population	Local
acetate	DIVLL	Long term initiation	00 mg/m		Loodi
	DNEL	Long term Inhalation	33 mg/m³	General population	Systemic
	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	320 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	550 mg/m ³	Workers Workers	Local
xylene	DNEL DNEL	Long term Dermal Long term Oral	796 mg/kg bw/day 12.5 mg/kg bw/day	General population	Systemic Systemic
Aylono	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
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English (US)			Europe		9/20

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SECTION 8: Exposure controls/personal protection

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	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
o-(p-isocyanatobenzyl)phenyl isocyanate	DNEL	Short term Dermal	28.7 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	0.025 mg/m³	General population	Local
	DNEL	Short term Inhalation	0.05 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0.05 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.1 mg/m³	Workers	Local
ethylbenzene	DMEL	Long term Inhalation	442 mg/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m³	Workers	Local
2,2'-methylenediphenyl diisocyanate	DNEL	Short term Dermal	28.7 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	0.025 mg/m ³	General population	Local
	DNEL	Short term Inhalation	0.05 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0.05 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.1 mg/m ³	Workers	Local

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
Isocyanic acid,	-	Fresh water	1 mg/l	Assessment Factors
polymethylenepolyphenylene ester				
	-	Marine water	0.1 mg/l	Assessment Factors
	-	Sewage Treatment Plant	1 mg/l	Assessment Factors
	-	Soil	1 mg/kg dwt	Assessment Factors
4,4'-methylenediphenyl diisocyanate	-	Fresh water	1 mg/l	Assessment Factors
	-	Marine water	0.1 mg/l	Assessment Factors
	-	Sewage Treatment Plant	1 mg/l	Assessment Factors
	-	Soil	1 mg/kg dwt	Assessment Factors
2-methoxy-1-methylethyl acetate	-	Fresh water	0.635 mg/l	-
	-	Marine water	0.0635 mg/l	-
	-	Fresh water sediment	3.29 mg/kg	-
	-	Marine water sediment	0.329 mg/kg	-
	-	Soil	0.29 mg/kg	-
	-	Sewage Treatment Plant	100 mg/l	-
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	-
o-(p-isocyanatobenzyl)phenyl isocyanate	-	Fresh water	1 mg/l	Assessment Factors
-	-	Marine water	0.1 mg/l	Assessment Factors
	-	Sewage Treatment Plant	1 mg/l	Assessment Factors
	-	Soil	1 mg/kg dwt	Equilibrium Partitioning
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
English (US)	<u> </u>	Europe	1	10/20

Soil

Fresh water

-

-

m-tolylidene diisocyanate

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S	ECTION 8: Exposure cont	trols/p	ersonal protection	1	
		-		1.37 mg/kg dwt	Equilibrium Partitioning
		-		2.68 mg/kg dwt	Equilibrium Partitioning
		-	, ,	20 mg/kg	-
	2,2'-methylenediphenyl diisocyanate	-	Fresh water	1 mg/l	Assessment Factors
		-	Marine water	0.1 mg/l	Assessment Factors
		-	Sewage Treatment Plant	1 mg/l	Assessment Factors

1 mg/kg dwt

0.013 mg/l

Assessment Factors

Assessment Factors

		-	Marine water Sewage Treatment Plant Soil	0.013 mg/i 0.00125 mg/i 1 mg/i 1 mg/kg dwt	Assessment Factors Assessment Factors Assessment Factors Equilibrium Partitioning
3.2 Exposure controls					
Appropriate engineering controls	or o any vap	other engir	adequate ventilation. Use neering controls to keep wo ended or statutory limits. Th concentrations below any luipment.	rker exposure to air	borne contaminants below ols also need to keep gas,
Individual protection meas	<u>ures</u>				
Hygiene measures	eat Ap Co cor	ing, smoki propriate to ntaminateo ntaminateo	forearms and face thoroug ing and using the lavatory a echniques should be used t d work clothing should not b l clothing before reusing. E close to the workstation loca	nd at the end of the o remove potentially be allowed out of the insure that eyewash	working period. contaminated clothing. workplace. Wash
Eye/face protection <u>Skin protection</u>	: Ch	emical spl	ash goggles. Use eye prote	ection according to E	EN 166.
Hand protection	wo is r dur not glo pro free (bre (bre (bre The pro	rn at all tim lecessary. ing use the ed that the ve manufa tection tim quently rep eakthrough e only br eakthrough e user mus duct is the	istant, impervious gloves considering the paramete Considering the paramete at the gloves are still retaining time to breakthrough for a acturers. In the case of mixing the of the gloves cannot be a beated contact may occur, a th time greater than 480 minu- tief contact is expected, a glue th time greater than 30 minu- st check that the final choice the most appropriate and take in the user's risk assessment	I products if a risk a rs specified by the g ng their protective p ny glove material m tures, consisting of s accurately estimated a glove with a protect outes according to E love with a protection tes according to EN e of type of glove se is into account the p	ssessment indicates this love manufacturer, check roperties. It should be ay be different for different several substances, the . When prolonged or tion class of 6 N 374) is recommended. n class of 2 or higher 374) is recommended. lected for handling this
Gloves	: but	yl rubber			
Body protection	bei	ng perform	tective equipment for the bo ned and the risks involved a product. When there is a ri	and should be appro	ved 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. **Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by

a specialist before handling this product.

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

Respiratory protection	:	Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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 vapor (Type A) and particulate filter P3
Restrictions on use	:	Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.
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

<u>Appearance</u>						
Physical state	:	Liquid.				
Color	: (Colorless.				
Odor	: .	Amine-like.				
Odor threshold	: 1	Not available.				
Melting point/freezing point		May start to solidify at the following temperature: -66°C (-86.8°F) This is based on data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -80.62°C (-113.1°F)				
Initial boiling point and boiling range	: :	•37.78°C				
Flammability	: 1	Not available.				
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 0.8% Upper: 6.7% (xylene)				
Flash point	:	Closed cup: 31°C				
Auto-ignition temperature	:					
	[Ingredient name	°C	°F	Method	
		2-methoxy-1-methylethyl acetate	333	631.4	DIN 51794	
Decomposition temperature	: :	Stable under recommended sto	brage and	handling cond	ditions (see Section 7).	
pH	: 1	Not applicable. insoluble in wat	er.			
Viscosity		Kinematic (room temperature): Kinematic (40°C): >21 mm²/s	>400 mm	²/s		
Viscosity	: (60 - 100 s (ISO 6mm)				
Solubility(ies)	:					
Media		Result				
cold water		Not soluble				

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SECTION 9: Physical and chemical properties

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Vapor pressure

			Vapor Pressure at 20°C			Vapor pressure at 50		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		ethylbenzene	9.30076	1.2				
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	hylbenz	ene) Weighte	d averag	e: 0.78co	mpared with
Relative density	:	: 1.19						
Vapor density	:	Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.15 (Air = 1)						
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapor or dust with air is possible.						
Oxidizing properties	:	Product does not pr	esent an c	xidizing	j hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
9.2 Other information								
No additional information.								

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

SECTION 11: Toxicological information

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

Product/ingredient name	Result	Species	Dose	Exposure
✓oluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol	LD50 Oral	Rat	>5000 mg/kg	-
lsocyanic acid, polymethylenepolyphenylene ester	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-
4,4'-methylenediphenyl diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
English (US)	Euro	ре		13/20

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SECTION 11: Toxicological information

	LD50 Oral	Rat	6190 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
m-tolylidene diisocyanate	LC50 Inhalation Vapor	Rat	0.48 mg/l	1 hours
	LD50 Dermal	Rabbit	>9440 mg/kg	-
	LD50 Oral	Rat	5.8 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
✔,4'-methylenediphenyl diisocyanate xylene	Skin - Irritant Skin - Moderate irritant	Rabbit Rabbit	-	- 24 hours 500 mg	-

itself.

Conclusion/Summary

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

Respiratory	: 1	There are no data available on the mixture
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Sensitization

Skin

Eyes

Product/ingredie	ent name	Route of exposure	Sp	ecies	Result	
4'-methylenediphenyl diisocyanate		Respiratory skin	Guinea pig Mouse		Sensitizing Sensitizing	
Conclusion/Summary						
Skin	: There are no data avail	able on the mixture	e itself.			
Respiratory	: There are no data avail	able on the mixture	e itself.			
Mutagenicity						
Conclusion/Summary	: There are no data avail	able on the mixture	e itself.			
Carcinogenicity						
Product/ingredient name	Result	Speci	es	Dose	Exposure	
₩,4'-methylenediphenyl diisocyanate	Positive - Inhalation - TC	Rat	0 t	to 6 mg/m³	2 years; 5 days per week	
Conclusion/Summary	: There are no data avail	able on the mixture	itself.			
Reproductive toxicity						
Conclusion/Summary	: There are no data avail	able on the mixture	e itself.			
Teratogenicity						
Conclusion/Summary	: There are no data avail	able on the mixture	e itself.			
Specific target organ toxicity	<u>/ (single exposure)</u>					

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Product/ingredient name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester	Category 3	-	Respiratory tract irritation
4,4'-methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
o-(p-isocyanatobenzyl)phenyl isocyanate	Category 3	-	Respiratory tract irritation
2,2'-methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
m-tolylidene diisocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester 4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate ethylbenzene 2,2'-methylenediphenyl diisocyanate	Category 2 Category 2 Category 2 Category 2 Category 2	inhalation - - -	- - hearing organs -

Aspiration hazard

Product	/ingredient name	Result
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on the likely routes of exposure	: Not available.	
Potential acute health effe	<u>cts</u>	
Inhalation	: Harmful if inhaled. May cause res symptoms or breathing difficulties	piratory irritation. May cause allergy or asthma if inhaled.
Ingestion	: No known significant effects or cri	tical hazards.
Skin contact	: Causes skin irritation. Defatting to	o the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.	
Symptoms related to the p	hysical, chemical and toxicological of	characteristics
Inhalation	: Adverse symptoms may include th respiratory tract irritation coughing wheezing and breathing difficulties asthma	-
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include th irritation redness dryness cracking	ne following:
Eye contact	: Adverse symptoms may include th pain or irritation watering redness	ne following:
Delayed and immediate eff	fects and also chronic effects from s	hort and long term exposure

English (US)

effects

: Not available.

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SECTION 11: Toxicological information

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Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
P-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
m-tolylidene diisocyanate	Acute EC50 12.5 mg/l	Daphnia	48 hours

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

12.2 Persistence and degradability

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SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
2-methoxy-1-methylethyl acetate ethylbenzene	-	83 % - Readily - 28 d 79 % - Readily - 10 d		-
Conclusion/Summary	: There are	no data available on the mix	ture itself.	
Product/ingredient name		Aquatic half-life	Photolysis	Biodegradability
methoxy-1-methylethyl ace	tate	-	-	Readily

2-methoxy-1-methylethyl acetate	-	-	Readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily
m-tolylidene diisocyanate	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
√,4'-methylenediphenyl diisocyanate	4.51	-	High	
2-methoxy-1-methylethyl acetate	1.2	-	Low	
xylene	3.12	7.4 to 18.5	Low	
o-(p-isocyanatobenzyl)phenyl isocyanate	4.51	-	High	
ethylbenzene	3.6	79.43	Low	
2,2'-methylenediphenyl diisocyanate	5.22	-	High	
m-tolylidene diisocyanate	3.43	-	Low	

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

<u>Product</u>	
of th requ regi via a	generation of waste should be avoided or minimized wherever possible. Disposal his product, solutions and any by-products should at all times comply with the hirements of environmental protection and waste disposal legislation and any onal local authority requirements. Dispose of surplus and non-recyclable products a licensed waste disposal contractor. Waste should not be disposed of untreated to sewer unless fully compliant with the requirements of all authorities with jurisdiction.

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SECTION 13: Disposal considerations

: Yes.

Hazardous waste

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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

14. Transport information

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

Additional information

ADR/RID	This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
Tunnel code	: (D/E)
ADN	This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
IATA	: None identified.

14.6 Special precautions for	2	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in
		the event of an accident or spillage.

English (US)	Europe	18/20
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Date of issue/Date of revision Code : 00175147 : 16 December 2023 **SIGMALINE 855 REP HARDENER** 14. Transport information 14.7 Maritime transport in : Not applicable. bulk according to IMO instruments **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization **Annex XIV** None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : As from August 24 2023 adequate training is required before industrial or professional on the manufacture, use placing on the market and use of certain

dangerous substances, mixtures and articles

Explosive precursors

ors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category P5c

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

 \checkmark Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Full text of abbreviated H statements

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SECTION 16: Other	r information	
H225		Highly flammable liquid and vapor.
H226		Flammable liquid and vapor.
H304		May be fatal if swallowed and enters airways.
H312		Harmful in contact with skin.
H315		Causes skin irritation.
H317		May cause an allergic skin reaction.
H319		Causes serious eye irritation.
H330		Fatal if inhaled.
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.
H351		Suspected of causing cancer.
H373		May cause damage to organs through prolonged or repeated
		exposure.
H412		Harmful to aquatic life with long lasting effects.
Full text of classifications	[CLP/GHS]	
Acute Tox. 1		ACUTE TOXICITY - Category 1
Acute Tox. 4		ACUTE TOXICITY - Category 4
Aquatic Chronic 3		AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1		ASPIRATION HAZARD - Category 1
Carc. 2		CARCINOGENICITY - Category 2
Eye Irrit. 2		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2		FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3		FLAMMABLE LIQUIDS - Category 3
Resp. Sens. 1		RESPIRATORY SENSITIZATION - Category 1
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1		SKIN SENSITIZATION - Category 1
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
		Category 2
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
		Category 3
History		
Date of issue/ Date of	: 16 December 20	23
revision		
Date of previous issue	: 13 March 2023	
Prepared by	: EHS	
Version	: 4.06	

Version

Disclaimer

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