SAFETY DATA SHEET

Date of issue/Date of revision

: 21 May 2024

Version

: 1.01

South Africa



SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier Product name : SIGMALINE 855 HARDENER GREY Product code : 000001190972 Other means of identification 00453590; 00453591

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

Sigma Coatings PTY 9 Arnold Street, Alrode, Alberton, Gauteng South Africa Tel: 0027 11 389 4800	-
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
1.4 Emergency telephone number	: +27 51 444 2134

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

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

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

English (GB)

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SIGMALINE 855 HARDENER	GREY
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 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	: Wear protective gloves, protective clothing and eye or face protection. Do not breather vapour.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
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, P260, P304 + P340, P342 + P311, P403 + P233, P501
Hazardous ingredients	 Kocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomega hydroxypoly[oxy(methyl-1,2-ethanediyl)] 4,4'-methylenediphenyl diisocyanate Isocyanic acid, polymethylenepolyphenylene ester methylenediphenyl diisocyanate, oligomers, polymer
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 professiona use.
Special packaging requiren	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPv \mathbf{v}
Other hazards which do not result in classification	: None known.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Socyanic acid, polymethylenepolyphenylene ester, polymer with .alpha hydroomegahydroxypoly [oxy(methyl-1,2-ethanediyl)]	CAS: 53862-89-8	≥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 (vapours)] = 11 mg/l	[1]
4,4'-methylenediphenyl diisocyanate	REACH #: 01-2119457014-47 EC: 202-966-0 CAS: 101-68-8 Index: 615-005-00-9	≥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	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]
Isocyanic acid, polymethylenepolyphenylene 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]
methylenediphenyl diisocyanate, oligomers, polymer	CAS: SUB137264	≥5.0 - ≤10	Acute Tox. 4, H332 Skin Irrit. 2, H315 Resp. Sens. 1A, H334 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Chronic 4, H413 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[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.

<u>Type</u>

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.

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SECTION 4: First aid measures

4.1 Description of first aid n	neasures
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.
	In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
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 effect		
Eye contact	uses serious eye irritation.	
Inhalation	rmful if inhaled. May cause respiratory irritation. May cause allergy or as nptoms or breathing difficulties if inhaled.	sthma
Skin contact	uses skin irritation. May cause an allergic skin reaction.	
Ingestion	known significant effects or critical hazards.	
Over-exposure signs/sympt		
Eye contact	lverse symptoms may include the following: in or irritation atering dness	
Inhalation	lverse symptoms may include the following: spiratory tract irritation ughing neezing and breathing difficulties thma	
Skin contact	lverse symptoms may include the following: tation dness	
Ingestion	o specific data.	
4.3 Indication of any immedia	dical attention and special treatment needed	
Notes to physician	case of inhalation of decomposition products in a fire, symptoms may be e exposed person may need to be kept under medical surveillance for 48	
Specific treatments	specific treatment	

Specific treatments : No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising f	om the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
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.
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, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	СО	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.

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SECTION 6: Accidental release measures

Special provisions	: 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 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	 Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in 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. 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. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurisation.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name		Exposure limit values		
₩,4'-methylenediphenyl diisocyanate		DOL OEL (South Africa, 3/2021). TWA: 0.01 ppm 8 hours.		
Recommended monitoring procedures	Standard EN 68 by inhalation to o strategy) Europ application and o biological agents requirements for agents) Referen	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure controls				
Appropriate engineering controls	other engineerin	lequate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any or statutory limits.		
Individual protection measured				
Hygiene measures	eating, smoking Appropriate tech Contaminated w contaminated cl	rearms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. Iniques should be used to remove potentially contaminated clothing. Fork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.		
Eye/face protection <u>Skin protection</u>	: Chemical splash	n goggles.		
Hand protection	worn at all times necessary. Con during use that t noted that the tir glove manufactu protection time of frequently repea (breakthrough tin When only brief (breakthrough tin The user must of product is the m	ant, impervious gloves complying with an approved standard should be when handling chemical products if a risk assessment indicates this is sidering the parameters specified by the glove manufacturer, check he gloves are still retaining their protective properties. It should be ne to breakthrough for any glove material may be different for different arers. In the case of mixtures, consisting of several substances, the of the gloves cannot be accurately estimated. When prolonged or ted contact may occur, a glove with a protection class of 6 me greater than 480 minutes according to EN 374) is recommended. contact is expected, a glove with a protection class of 2 or higher me greater than 30 minutes according to EN 374) is recommended. heck that the final choice of type of glove selected for handling this ost appropriate and takes into account the particular conditions of use, e user's risk assessment.		
Gloves	: polyethylene bu	tyl rubber		
Body protection	•	tive equipment for the body should be selected based on the task being he risks involved and should be approved by a specialist before oduct.		
Other skin protection	based on the tas	wear and any additional skin protection measures should be selected sk being performed and the risks involved and should be approved by a handling this product.		
Respiratory protection	:			

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		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 vapour (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

Appearance								
Physical state	:	Liquid.						
Colour	:	Grey.	rey.					
Odour	:	Aromatic. [Slight]	omatic. [Slight]					
Odour threshold	:	Not available.	ot available.					
Melting point/freezing point	1	Not available.						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Not available.						
Flash point	:	Closed cup: 205°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		4,4'-methylenediphenyl d	iisocyanate	>601	>1113.8	3 Е	EU A.15	
Decomposition temperature	:	Stable under recomm	nended st	orage and	d handling co	onditions	(see Sec	tion 7).
pH	:	Not applicable. insolu	Not applicable. insoluble in water.					
Viscosity	:	Kinematic (40°C): >2	1 mm²/s					
Viscosity	1	30 - <40 s (ISO 6mm	30 - <40 s (ISO 6mm)					
Solubility(ies)	1							
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octanol/ water	:	Not applicable.						
Vapour pressure	:		Vapour Pressure at 20°C		Vapour pressure at 50°C			
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		socyanic acid, polymethylenepolyphenylene ester	<0.000007501	<0.000001				
		03101						

English (GB)

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SECTION 9: Physica	I and chemical properties
Relative density	: 1.17
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture vapour or dust with air is possible.
Oxidising properties	: Product does not present an oxidizing 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.
	Refer to protective measures listed in sections 7 and 6.
10.5 Incompatible materials	: Keep away from: oxidising 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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4'-methylenediphenyl diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
Isocyanic acid, polymethylene ester	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 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	Skin - Irritant	Rabbit	-	-	-

Conclusion/Summary Skin Eyes

: There are no data available on the mixture itself.

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

Respiratory <u>Sensitisation</u>

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SECTION 11: Toxicological information

Product/ingred	Route of exposure	Species	Result	
4,4'-methylenediphenyl diisocyanate		Respiratory skin	Guinea pig Mouse	Sensitising Sensitising
Conclusion/Summary				
Skin	: There are no data avai	lable on the mixture	e itself.	
Respiratory	: There are no data avail	lable on the mixture	e itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data avai	lable on the mixture	e itself.	
Carcinogenicity				
Product/ingredient name	Result	Spec	ies Dose	Exposure
,∕4'-methylenediphenyl diisocyanate	Positive - Inhalation - TC	Rat	0 to 6 mg/m	1 ³ 2 years; 5 days per week
Conclusion/Summary	: There are no data avai	lable on the mixture	e itself.	·
Reproductive toxicity				
Conclusion/Summary	: There are no data avai	lable on the mixture	e itself.	
Teratogenicity				
Conclusion/Summary	: There are no data avail	lable on the mixture	e itself.	
Spacific target organ toxicit	v (cingle expecture)			

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly[oxy(methyl- 1,2-ethanediyl)]	Category 3	-	Respiratory tract irritation
4,4'-methylenediphenyl diisocyanate Isocyanic acid, polymethylenepolyphenylene ester methylenediphenyl diisocyanate, oligomers, polymer	Category 3 Category 3 Category 3	- - -	Respiratory tract irritation Respiratory tract irritation Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly[oxy(methyl- 1,2-ethanediyl)]	Category 2	inhalation	-
4,4'-methylenediphenyl diisocyanate	Category 2	-	-
Isocyanic acid, polymethylenepolyphenylene ester	Category 2	inhalation	-

Aspiration hazard

Not available.

Information on likely	: Not available.
routes of exposure	

Pote	ntial	acute	<u>health</u>	effects	

Inhalation	: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms related to the	e physical, chemical and toxicological characteristics

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Inhalation	Adverse symptoms may include the following: espiratory tract irritation coughing vheezing and breathing difficulties isthma	
Ingestion	lo specific data.	
Skin contact	Adverse symptoms may include the following: ritation edness	
Eye contact	Adverse symptoms may include the following: pain or irritation vatering edness	
Delayed and immediate effe	as well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Long term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Potential chronic health effe		
Not available.		
Conclusion/Summary	lot available.	
General	May cause damage to organs through prolonged or repeated exposure. Once ensitized, a severe allergic reaction may occur when subsequently exposed to very lo evels.	w
Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	lo known significant effects or critical hazards.	
Reproductive toxicity	lo known significant effects or critical hazards.	
Other information	lot available.	

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitisation 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. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

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

Conclusion/Summary : The

: There are no data available on the mixture itself.

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
✔,4'-methylenediphenyl diisocyanate methylenediphenyl diisocyanate, oligomers, polymer	4.51 6.17	-	High High

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

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

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

European waste catalogue (EWC)

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

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

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Type of packaging European waste catalogue (EWC)		European waste catalogue (EWC)
Container	15 01 06	mixed packaging
Special precautions	taken when hai Empty containe	nd its container must be disposed of in a safe way. Care should be ndling emptied containers that have not been cleaned or rinsed out. ers or liners may retain some product residues. Avoid dispersal of spilt noff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID : None identified. IMDG : None identified. ΙΑΤΑ : None identified.

user

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

14.7 Transport in bulk : Not applicable. 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 authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

SIGMALINE 855 HARDENER GREY SECTION 15: Regulatory information Annox XVII - Restrictions in the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other national and International regulations, Explosive precursors information Chernational and International regulations, Explosive precursors information information Second depleting substances (1005/2009/EU) Not isted. 15.2 Chemical safety assessment I No Chemical Safety Assessment has been carried out. Second depleting substances (1005/2009/EU) Not isted. SECTION 16: Other information I ndicates 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 EVII text of abbreviated H H H315 Causes selus eye firitation. H337 May cause an allergy or asthma symptoms or breathing difficulties if inhaled H335 Hay causes areaing or organs through prolonged or repeated exposure. H337 May cause and allergy or asthma symptoms or breathing difficulties if inhaled. H335 Hay cause areaing or organs through prolonged or repeated exposure. H337 May cause and allergy or asthma symptoms or breathing difficulties if inhaled. H335 Hay cause areaing or organs through prolonged or repeated exposure. H337 May cause damage to organs through prolonged or repeated exposure. H338 Hay cause and allergy or asthma symptoms or breathing difficulties if inhaled. CLP/GHS Stor E 2 Stor SE 3 SPECIFIC TARGET ORGAN TOXICITY - Category 1 Stin Sens:	Code : 00000119097	2	Date of issue/Date of revision	: 21 May 2024
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Version : 1.01	Version	: 1.01		

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Date of issue/Date of revision

: 21 May 2024

SIGMALINE 855 HARDENER GREY

SECTION 16: Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.