

Date of issue/Date of revision

: 18 September 2023 Version



: 28

Denmark

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

1.1 Product identifie	er
-----------------------	----

Product name	: SIGMASHIELD 880/880GF HARDENER
Product code	: 00318046

Product code

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

National advisory body/Poison Centre

Telephone number

: Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335 Aquatic Chronic 1, H410 The product is electrified as bazardous according to Regulation (EC) 1272/20

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

Denmark

Code	: 00318046	Date of issue/Date of revision	: 18 September 2023

SIGMASHIELD 880/880GF HARDENER

SECTION 2: Hazards identification

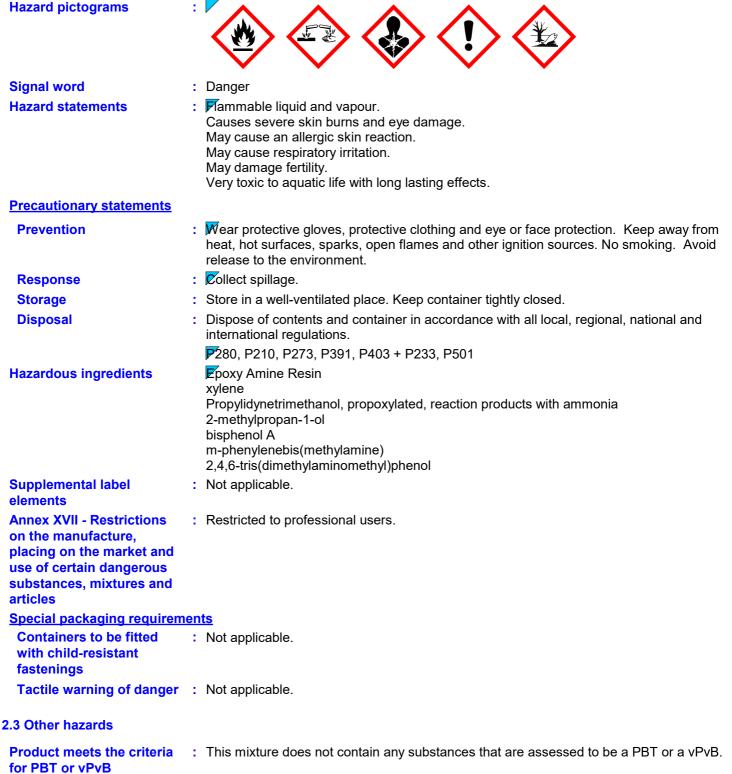
See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

articles

Hazard pictograms



English (GB)	Denmark	2/22

Code : 00318046 SIGMASHIELD 880/880GF HARDENER	Date of issue/Date of revision	: 18 September 2023			
SECTION 2: Hazards identification					

Other hazards which do not result in classification

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

May cause endocrine disruption.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₽poxy Amine Resin	CAS: SUB123903	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Propylidynetrimethanol, propoxylated, reaction products with ammonia	REACH #: 01-2119556886-20 EC: 500-105-6 CAS: 39423-51-3	≥10 - ≤17	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥5.0 - ≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
bisphenol A	REACH #: 01-2119457856-23 EC: 201-245-8 CAS: 80-05-7 Index: 604-030-00-0	≥1.0 - ≤5.0	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 10	[1] [2] [3]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥1.0 - ≤4.3	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	ATE [Oral] = 930 mg/ kg ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
ethylbenzene	REACH #:	≥1.0 - ≤5.0	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
English (GB)			Denmark		3/22

Code : 00318046 SIGMASHIELD 880/880GF HARDENER Date of issue/Date of revision

: 18 September 2023

SECTION 3: Composition/information on ingredients

			-		
	01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	(vapours)] = 17.8 mg/l	
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≥0.30 - ≤2.6	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[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 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.

SECTION 4: First aid measures

4.1 Description of first aid measures

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 e	<u>:ts</u>	
Eye contact	: Causes serious eye damage.	
Inhalation	: May cause respiratory irritation.	
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin react	ion.
Ingestion	: No known significant effects or critical hazards.	

English (GB)	Denmark	4/22

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

Code : 00318046	Date of issue/Date of revision	: 18 September 2023
SIGMASHIELD 880/880GF HARDENER		

SECTION 4: First aid measures

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following:
	pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking 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 immediate 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.

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 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 may include the following materials: carbon oxides nitrogen oxides

5.3 Advice for firefighters

Code : 00318046 SIGMASHIELD 880/880GF H	Date of issue/Date of revision : 18 September 2023 RDENER	
SECTION 5: Firefighting measures		
Special precautions for	: Promptly isolate the scene by removing all persons from the vicinity of the incident if	

fire-fighters	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	ective equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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	Kvoid 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	ontainment 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
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

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

2020/878 Code : 00318046	Date of issue/Date of revision : 18 September 2023
SIGMASHIELD 880/880GF	· · · · · · · · · · · · · · · · · · ·
SECTION 7: Handli	ing and storage
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 information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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	
x ylene	Working Environment Authority (Denmark, 6/2022). [Xylenes, al isomers] Absorbed through skin. TWA: 109 mg/m ³ 8 hours. TWA: 25 ppm 8 hours. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.]]
2-methylpropan-1-ol	Working Environment Authority (Denmark, 6/2022). [Butanol, al isomers] Absorbed through skin. CEIL: 150 mg/m ³ CEIL: 50 ppm	11
bisphenol A	Working Environment Authority (Denmark, 6/2022). TWA: 2 mg/m ³ 8 hours. Form: suspended dust STEL: 4 mg/m ³ 15 minutes. Form: suspended dust	
English (GB)	Denmark 7/22	

Conforms to Regulation (EC) No.	907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
2020/878	

Code	: 00318046	Date of issue/Date of revision	: 18 September 2023
SIGMASHIE	LD 880/880GF HARDENER		

SECTION 8: Exposure controls/personal protection

m-phenylenebis(methylamine)	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin.
	CEIL: 0.1 mg/m ³
	CEIL: 0.02 ppm
ethylbenzene	Working Environment Authority (Denmark, 6/2022). Absorbed
	through skin. Carcinogen.
	TWA: 217 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 434 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.

procedures 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.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
x ylene	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
-	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	Systemic
	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	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	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	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
Propylidynetrimethanol,	DNEL	Long term Dermal	1.6 mg/kg bw/day	Workers	Systemic
propoxylated, reaction					-,
products with ammonia					
	DNEL	Long term Inhalation	14.1 mg/m ³	Workers	Systemic
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	
<u>-</u> j:	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.4 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m^3	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
English (GB)	1	<u> </u>	Denmark	1	8/22

Code : 00318046 SIGMASHIELD 880/880GF HARDENER Date of issue/Date of revision

: 18 September 2023

SECTION 8: Exposure controls/personal protection							
	DNEL	Short term Inhalation	110 mg/m ³	Workers	Systemic		
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m ³	General population	Local		
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local		
bisphenol A	DNEL	Long term Inhalation	2 mg/m ³	Workers	Systemic		
•	DNEL	Short term Inhalation	2 mg/m ³	Workers	Systemic		
	DNEL	Long term Inhalation	2 mg/m ³	Workers	Local		
	DNEL	Short term Inhalation	2 mg/m ³	Workers	Local		
	DNEL	Long term Dermal	0.031 mg/kg bw/day	Workers	Systemic		
	DNEL	Short term Dermal	0.031 mg/kg bw/day	Workers	Systemic		
	DNEL	Long term Inhalation	1 mg/m ³	General population	Systemic		
	DNEL	Short term Inhalation	1 mg/m ³	General population	Systemic		
	DNEL	Long term Inhalation	1 mg/m ³	General population	Local		
	DNEL	Short term Inhalation	1 mg/m ³	General population	Local		
	DNEL	Long term Dermal	0.002 mg/kg bw/day	General population			
	DNEL	Short term Dermal	0.002 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Oral	0.004 mg/kg bw/day	General population			
	DNEL	Short term Oral	0.004 mg/kg bw/day	General population			
	DNEL	Short term Dermal	0.0019 mg/kg bw/day	General population			
	DNEL	Long term Dermal	0.0019 mg/kg bw/day	General population	•		
	DNEL	Short term Oral	0.004 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Oral	0.004 mg/kg bw/day	General population	Systemic		
	DNEL	Short term Dermal	0.031 mg/kg bw/day	Workers	Systemic		
	DNEL	Long term Dermal	0.031 mg/kg bw/day	Workers	Systemic		
	DNEL	Short term Inhalation	1 mg/m ³	General population			
	DNEL	Long term Inhalation	1 mg/m ³	General population			
	DNEL	Short term Inhalation	1 mg/m ³	General population	Systemic		
	DNEL	Short term Inhalation	2 mg/m^3	Workers	Local		
	DNEL	Long term Inhalation	2 mg/m^3	Workers	Local		
	DNEL	Short term Inhalation	2 mg/m^3	Workers	Systemic		
	DNEL		2 mg/m^3	Workers	•		
	DNEL	Long term Inhalation			Systemic		
n nhanylanahia(mathylamina)	DNEL	Long term Inhalation	1 mg/m^3	General population Workers	Systemic Local		
m-phenylenebis(methylamine)	DNEL		0.2 mg/m^3	Workers	Systemic		
		Long term Dermal	0.33 mg/kg bw/day				
thulbanzana	DNEL DNEL	Long term Inhalation	1.2 mg/m ³	Workers	Systemic		
ethylbenzene		Long term Oral	1.6 mg/kg bw/day	General population			
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic		
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic		
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic		
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local		
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local		
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic		
2,4,6-tris dimethylaminomethyl)phenol	DNEL	Long term Oral	0.075 mg/kg bw/day	General population	Systemic		
, , , , , , , , , , , , , , , , , , , ,	DNEL	Short term Dermal	0.075 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Dermal	0.075 mg/kg bw/day	General population			
	DNEL	Short term Inhalation	0.13 mg/m^3	General population			
	DNEL	Long term Inhalation	0.13 mg/m ³	General population	Systemic		
	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic		
	DNFI	Long term Inhalation	0.53 mg/m ³	Workers	Systemic		
	DNEL DNEL	Long term Inhalation Short term Dermal	0.53 mg/m³ 0.6 mg/kg bw/day	Workers Workers	Systemic Systemic		

PNECs

Date of issue/Date of revision

: 18 September 2023

Code : 00318046

SIGMASHIELD 880/880GF HARDENER

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
x ylene	-	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	-
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.156 mg/kg dwt	-
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning
bisphenol A	-	Fresh water	0.018 mg/l	Sensitivity Distribution
	-	Marine water	0.018 mg/l	Sensitivity Distribution
	-	Sewage Treatment Plant	320 mg/l	Assessment Factors
	-	Fresh water sediment	1.2 mg/kg dwt	Assessment Factors
	-	Marine water sediment	0.24 mg/kg dwt	Assessment Factors
	-	Soil	3.7 mg/kg dwt	Assessment Factors
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 mg/kg	-

English (GB)	Denmark	10/22
Hand protection	: Chemical-resistant, impervious gloves complying with an appro- worn at all times when handling chemical products if a risk ass is necessary. Considering the parameters specified by the glo during use that the gloves are still retaining their protective pro- noted that the time to breakthrough for any glove material may glove manufacturers. In the case of mixtures, consisting of se protection time of the gloves cannot be accurately estimated. If frequently repeated contact may occur, a glove with a protection (breakthrough time greater than 480 minutes according to EN When only brief contact is expected, a glove with a protection (breakthrough time greater than 30 minutes according to EN 3 The user must check that the final choice of type of glove select	essment indicates this ve manufacturer, check perties. It should be be different for different veral substances, the When prolonged or on class of 6 374) is recommended. class of 2 or higher 74) is recommended.
Eye/face protection Skin protection	: Chemical splash goggles and face shield. Use eye protection	according to EN 166.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling cher eating, smoking and using the lavatory and at the end of the we Appropriate techniques should be used to remove potentially c Contaminated work clothing should not be allowed out of the we contaminated clothing before reusing. Ensure that eyewash st showers are close to the workstation location.	orking period. ontaminated clothing. /orkplace. Wash ations and safety
Individual protection mea	<u>sures</u>	
8.2 Exposure controls Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, lo or other engineering controls to keep worker exposure to airbo any recommended or statutory limits. The engineering controls vapour or dust concentrations below any lower explosive limits ventilation equipment.	rne contaminants below s also need to keep gas,

10/22

 Code
 : 00318046
 Date of issue/Date of revision
 : 18 September 2023

 SIGMASHIELD 880/880GF HARDENER
 Date of issue/Date of revision
 : 18 September 2023

 SECTION 8: Exposure controls/personal protection
 product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

 Gloves
 : nitrile neoprene
 : nitrile neoprene

 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. 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.
 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.

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.

Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and

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

: Liquid.
: Colourless.
: Amine-like.
: Not available.
 May start to solidify at the following temperature: 14°C (57.2°F) This is based on data for the following ingredient: m-phenylenebis(methylamine). Weighted average: -52.5°C (-62.5°F)
: >37.78°C
: Not available.
: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
: Closed cup: 36°C
: 305°C (581°F)
: Stable under recommended storage and handling conditions (see Section 7).
: Not applicable. insoluble in water.
: Kinematic (40°C): >21 mm²/s
: > 100 s (ISO 6mm)

Code	: 00318046	Date of issue/Date of revision	: 18 September 2023
SIGMASHIE	D 880/880GE HARDENER		

SECTION 9: Physical and chemical properties

2

	Media	Result
	cold water	Not soluble
Ρ	artition coefficient: n-octanol/ : N	lot applicable.

water

Vapour pressure

			Vapour Pressure at 20°C			Vapour pressure at 50°		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	hylbenz	ene) Weighte	d averag	e: 0.55co	mpared with
Relative density	:	1.02						
Vapour density	:	Highest known value	e: 3.7 (Air	- = 1) (x	ylene). Weigh	ited aver	age: 3.53	6 (Air = 1)
Explosive properties	:	The product itself is vapour or dust with a	•		t the formation	of an ex	plosible n	nixture of
Oxidising properties	:	Product does not pro	esent an o	oxidizing	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	: 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 nitrogen oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Code : 00318046 SIGMASHIELD 880/880GF HARDENER Date of issue/Date of revision

: 18 September 2023

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
x ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Propylidynetrimethanol, propoxylated,	LD50 Dermal	Rabbit	0.4 g/kg	-
reaction products with ammonia				
	LD50 Oral	Rat	0.22 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	_
	LD50 Oral	Rat	1.23 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
bisphenol A	LD50 Dermal	Rabbit	3600 mg/kg	-
	LD50 Oral	Rat	3.25 g/kg	-
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male,	>3100 mg/kg	-
		Female		
	LD50 Oral	Rat	930 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
m-phenylenebis(methylamine)	Skin - Severe irritant	Rat		4 hours	4 hours
2,4,6-tris(dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit		4 hours	7 days

Conclusion/Summary

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 the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
m-phenylenebis(methylamine)	skin	Mouse	Sensitising
Conclusion/Summon	I		

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.

	English (GB)	Denmark	13/22
--	--------------	---------	-------

Code : 00318046 Date of issue/Date of revision

: 18 September 2023

SIGMASHIELD 880/880GF HARDENER

SECTION 11: Toxicological information

Teratogenicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
x ylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
bisphenol A	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Produ	ct/ingredient name	Result
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health ef	fects	
Inhalation	: May cause respiratory irritation.	
Ingestion	: No known significant effects or c	ritical hazards.
Skin contact	: Causes severe burns. Defatting	to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.	
Symptoms related to the	physical, chemical and toxicological	<u>characteristics</u>
Inhalation	: Adverse symptoms may include respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations	the following:
Ingestion	: Adverse symptoms may include stomach pains reduced foetal weight increase in foetal deaths skeletal malformations	the following:
Skin contact	: Adverse symptoms may include pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	the following:
Eye contact	: Adverse symptoms may include pain watering redness	the following:
English (GB)	[Denmark 14/22

Code	: 00318046	Date of issue/Date of revision	: 18 September 2023
SIGMASHI	ELD 880/880GF HARDENER		

SECTION 11: Toxicological information

		-
Delayed and immediate effe	cts	<u>s as well as chronic effects from short and long-term exposure</u>
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	May damage fertility.
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 vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

May cause endocrine disruption.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
₽-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
bisphenol A	Acute LC50 0.885 mg/l Fresh water	Crustaceans	48 hours
	Acute LC50 8.11 mg/l Fresh water	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	48 hours
	Acute LC50 4.6 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 0.000174 mg/ I Fresh water	Fish	5 months
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	-
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	, Fish	96 hours
English (GB)	Denmark		15/22

SECTION 12: Ecological information

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
₩ylene benzyl alcohol bisphenol A ethylbenzene	- - -	- - -	Readily Readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	Low
benzyl alcohol	0.87	-	Low
2-methylpropan-1-ol	1	-	Low
bisphenol A	3.4	43.65	Low
m-phenylenebis(methylamine)	0.18	2.69	Low
ethylbenzene	3.6	79.43	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	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

May cause endocrine disruption.

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

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

2020/878	
Code : 00318046 SIGMASHIELD 880/880GF	Date of issue/Date of revision : 18 September 2023 HARDENER
SECTION 13: Dispo	sal considerations
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	catalog	<u>ue (EWC)</u>

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

: 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	European waste catalogue (EWC)	
Container	15 01 06	mixed packaging
Special precautions	taken when ha Empty contair residues may Do not cut, we	and its container must be disposed of in a safe way. Care should be andling emptied containers that have not been cleaned or rinsed out. ners or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the container. eld or grind used containers unless they have been cleaned thoroughly roid dispersal of spilt material and runoff and contact with soil, waterways, ewers.

14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3469	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
14.4 Packing group		III	111	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyoxy propylene diamine, bisphenol A)	Not applicable.

Additional information

English		17/22
IMDG	≤5 kg.	s of ≤5 L or ≤5 ka.
ADN	: The environmentally hazardous substance mark is not required whe	en transported in sizes of ≤5 L or
Tunnel code	: (D/E)	
ADR/RID	: IThe environmentally hazardous substance mark is not required whe ≤5 kg.	en transported in sizes of ≤5 L or

English (GB)	Denmark	17/22
--------------	---------	-------

Code : 00318046 SIGMASHIELD 880/880GF H	Date of issue/Date of revision : 18 September 2023 ARDENER
14. Transport info	rmation
IATA : The envi regulatio	ronmentally hazardous substance mark may appear if required by other transportation ns.
14.6 Special precautions for user	: 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 Maritime transport in bulk according to IMO	: Not applicable.

```
instruments
```

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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
✓oxic to reproduction Endocrine disrupting properties for human health	4,4'-isopropylidenediphenol 4,4'-isopropylidenediphenol	Recommended Recommended	ED/01/2018 ED/01/2018	10/1/2019 10/1/2019
Endocrine disrupting properties for environment	4,4'-isopropylidenediphenol	Recommended	ED/01/2018	10/1/2019

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Explosive precursors : Mot applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria		
Category		
₽5c E1		
National regulations		
Product registration number	: PR-2434866	
Danish fire class	: II-1	
Executive Order No. 17	<u>95/2015</u>	

English (GB)

ode : 00318046 IGMASHIELD 880/880GF	Date of issue/Date of revision : 18 September 2023 ARDENER			
ECTION 15: Regul	atory information			
Ingredient name		Annex I Section A	Annex I Section B	
ethylbenzene		Listed	-	
MAL-code	: 3-5			
Protection based on MAL	U	lations on work involving coded p he use of personal protective equi		
	General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/ protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.			
	In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.			
	treatments in a spray be working in similar new*	ing scraper or knife, brush, roller etc. both where the operator is outside the facilities of the combined-cabin, spra is working inside the spray zone. W omizing guns.	e spray zone and when ly-cabin and spray-booth	
	- Protective clothing must be worn.			
	there is a risk of contac brush, roller, etc, for pre type, if the operator is ir	ning and repair in closed facilities, sp t with wet paint or organic solvents. - and post-treatments in cabins or b nside the spray zone. When using so eatments outside a closed facility, sp	When using scraper or knif poths of the existing* facilit graper or knife, brush, roller	
	- Air-supplied half mask, protective clothing and eye protection must be worn.			
	When spraying in new* booths if the operator is outside the spray zone.			
	- Air-supplied half mask			
	During non-atomising s	ng* spray booths, if the operator is or praying in existing* facilities of the co here the operator is working inside th	mbined-cabin, spray-cabin	
	- Air-supplied full mask and protective clothing must be worn.			
		re atomisation occurs in cabins or sp pray zone and during spraying outside		

Code: 00318046Date of issue/Date of revision: 18 September 2023

SIGMASHIELD 880/880GF HARDENER

SECTION 15: Regulatory information

	Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.	
	Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.	
	Caution The regulations contain other stipulations in addition to the above.	
	*See Regulations.	
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.	
List of undesirable substances	: Listed	
Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.	

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

✓ 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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

 Code
 <th::00318046</th>
 Date of issue/Date of revision
 : 18 September 2023

SIGMASHIELD 880/880GF HARDENER

SECTION 16: Other information

Classification	Justification
Fam. Liq. 3, H226	On basis of test data
Skin Corr. 1C, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360F	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

Highly flammable liquid and vapour.	
Flammable liquid and vapour.	
Harmful if swallowed.	
May be fatal if swallowed and enters airways.	
Harmful in contact with skin.	
Causes severe skin burns and eye damage.	
Causes skin irritation.	
May cause an allergic skin reaction.	
Causes serious eye damage.	
Causes serious eye irritation.	
Harmful if inhaled.	
May cause respiratory irritation.	
May cause drowsiness or dizziness.	
May damage fertility.	
May cause damage to organs through prolonged or repeated	
exposure.	
Very toxic to aquatic life.	
Very toxic to aquatic life with long lasting effects.	
Toxic to aquatic life with long lasting effects.	
Harmful to aquatic life with long lasting effects.	
Corrosive to the respiratory tract.	

Full text of classifications [CLP/GHS]

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

<u>History</u>

Date	of	issue/	Date	of
revis	ion	1		

: 18 September 2023

Code <th::00318046< th=""> Date of issue/Date of revision : 18 September 2023 SIGMASHIELD 880/880GF HARDENER Date of issue/Date of revision : 18 September 2023</th::00318046<>			
SECTION 16: Other information			
Date of previous issue	: 24 October 2022		
Prepared by	: EHS		
Version	: 28		

Disclaimer

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.