# Safety Data Sheet according to Regulation (EC) 'No. 2020/878



# SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier IIN-FLOWSL-AC Revision Date: 13/08/2024

Product Name: FLOWSHIELD SL HARDENER B Supersedes Date: 29/05/2023

UFI Code: No Information

Contain nanoform:

1.2 Relevant identified uses of the

substance or mixture and uses

advised against

Component of multicomponent industrial coatings - Industrial use. Advised against:

others than recommended

1.3 Details of the supplier of the safety data sheet

Importer: None

Manufacturer: StonCor Middle East L.L.C.

Plot # B518, Al Quoz Industrial Area 3

P.O. Box: 3034 Dubai, U.A.E.

Regulatory / Technical Information:

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Datasheet Produced by: Rivero, Melody - ehs@stoncor.com

1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

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# **SECTION 2: Hazards Identification**

## 2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

## **HAZARD STATEMENTS**

Skin Corrosion, category 1	H314-1
Reproductive Toxicity, category 2	H361
Hazardous to the aquatic environment, Acute, category 1	H400
Hazardous to the aquatic environment, Chronic, category 1	H410

#### 2.2 Label elements

## Symbol(s) of Product



## Signal Word

Danger

## Named Chemicals on Label

polyoxypropylenediamine, 4-nonylphenol, branched

#### **HAZARD STATEMENTS**

Skin Corrosion, category 1	H314-1	Causes severe skin burns and eye damage.
Reproductive Toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
Hazardous to the aquatic environment, Acute, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, Chronic, category 1	H410	Very toxic to aquatic life with long lasting effects.
PRECAUTION PHRASES		
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.
	P284	Wear respiratory protection.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
	P308+313 P363 P391	IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
		202. op2.

# 2.3 Other hazards

No Information

## Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**Endocrine disrupting properties - Toxicity** 

Name According to EEC CAS-No.

No Information

Endocrine disrupting properties - Ecotoxicity

Name According to EEC CAS-No.

No Information

# **SECTION 3: Composition/Information On Ingredients**

## 3.1 Substances

Not applicable

## 3.2 Mixtures

# Hazardous ingredients

Name According to EEC EINEC No. CAS-No. REACH Reg No.	<u>%</u>	<u>Classifications</u>	,	GCL Value: ATE Value: M-Factor:
polyoxypropylenediamine 618-561-0	25 - <50	H314-411	SCL Value:	-
9046-10-0			ATE Value:	-
No Information		Aquatic Chronic 2, Skin Corr. 1	M-Factor: (acute)	-
			M-Factor: (chronic)	-
4-nonylphenol, branched 284-325-5	25 - <50	H302-314-361-400-410	SCL Value:	-
84852-15-3			ATE Value:	-
No Information		Acute Tox. 4 Oral, Aquatic Acute 1, Aquatic Chronic 1, Repr. 2, Skin Corr. 1	M-Factor: (acute)	-
			M-Factor: (chronic)	-

2,4,6-tris(dimethylaminomethyl) phenol	2.5 - <10	H315-319	SCL Value:	-
202-013-9 90-72-2			ATE Value:	-
No Information		Eye Irrit. 2, Skin Irrit. 2	M-Factor:	_
			(acute)	
			M-Factor: (chronic)	-

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

#### **SECTION 4: First-aid Measures**

#### 4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.

AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**AFTER EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

No Information

## 4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention is required. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## **SECTION 5: Firefighting Measures**

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

#### 5.2 Special hazards arising from the substance or mixture

No Information

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## **SECTION 6: Accidental Release Measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

Ensure adequate ventilation. Use personal protective equipment.

#### 6.1.2 For emergency responders

No Information

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

#### 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

## **SECTION 7: Handling and Storage**

## 7.1 Precautions for safe handling

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist.

Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Direct sources of heat.

**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

#### 7.3 Specific end use(s)

No specific advice for end use available.

#### **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1 Control parameters

# Ingredients with Occupational Exposure Limits

(EU)

<u>Name</u>	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
polyoxypropylenediamine	9046-10-0				

4-nonylphenol, branched 84852-15-3 2,4,6-tris(dimethylaminomethyl)phenol 90-72-2

Name CAS-No. OEL Note

polyoxypropylenediamine 9046-10-0
4-nonylphenol, branched 84852-15-3
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

**Chemical Name:** 

EC No.: CAS-No.:

#### DNELs - Derived no effect level

	Workers			Consumers				
Route of	Acute effect	Acute effects	Chronic	Chronic effects	Acute effect	Acute effects	Chronic	Chronic effects
Exposure	local	systemic	effects local	systemic	local	systemic	effects local	systemic
Oral	Not required							
Inhalation								
Dermal								

## PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

### 8.2 Exposure controls

**Personal Protection** 

**RESPIRATORY PROTECTION:** Respirator with filter for organic vapor.

EYE PROTECTION: Tightly fitting safety goggles.

HAND PROTECTION: Impervious gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.

**OTHER PROTECTIVE EQUIPMENT:** No Information

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## **SECTION 9: Physical and Chemical Properties**

9.1 Information on basic physical and chemical properties

Colour: Pale Yellow Liquid

Physical State Liquid

Odor Ammoniacal
Odor threshold Not determined

**pH** Alkaline

Melting point / freezing point (°C)

Not determined

Boiling point or initial boiling point and

175 - N.D.

boiling range (°C)

Flash Point, (°C)

Evaporation rate Not determined
Flammability (solid, gas) Not determined

Llower and upper explosive limit Not determined

Unknown

Vapour Pressure Not determined Relative vapour density Not determined Density and/or relative density Not determined Solubility in / Miscibility with water Not determined Partition coefficient: n-octanol/water Not determined Auto-ignition temperature (°C) Not determined Decomposition temperature (°C) Not determined Kinematic viscosity

Particle characteristics Not applicable to liquids

9.2 Other information

> VOC Content g/l: 0

Specific Gravity (g/cm3) 0.955

# **SECTION 10: Stability and Reactivity**

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous polymerisation may occur.

#### 10.4 Conditions to avoid

Direct sources of heat.

## 10.5 Incompatible materials

Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

# **SECTION 11: Toxicological information**

## Information on hazard classes as definied in Regulation (EC) No 1272/2008

**Acute Toxicity:** 

Oral LD50: No information available. Inhalation LC50: No information available.

No Information **Dermal LD50:** 

No information available. Irritation:

Corrosivity: No information available.

Sensitization: No information available.

No information available. Repeated dose toxicity:

Carcinogenicity: No information available.

Mutagenicity: No information available.

**Toxicity for reproduction:** No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
9046-10-0	polyoxypropylenediamine	2855 mg/kg, rat	2980 mg/kg, rabbit		0.000	0.000
84852-15-3	4-nonylphenol, branched	1620 mg/kg oral			0.000	0.000
90-72-2	2,4,6-tris (dimethylaminomethyl)phenol	2169 mg/kg oral			0.000	0.000

#### Additional Information:

No Information

## 11.2 Information on other hazards

**Endocrine disrupting properties - Toxicity** 

Name According to EEC CAS-No.

No Information

# **SECTION 12: Ecological Information**

#### 12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

No information

No information

No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

**12.4 Mobility in soil:**No information

12.5 Results of PBT and vPvB The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

assessment:

#### 12.6 Endocrine disrupting properties

Endocrine disrupting properties - Ecotoxicity

Name According to EEC CAS-No.

No Information

12.7 Other adverse effects: No information

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
9046-10-0	polyoxypropylenediamine	No information	No information	
84852-15-3	4-nonylphenol, branched	No information	No information	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	No information	No information	

# **SECTION 13: Disposal Considerations**

**13.1 WASTE TREATMENT METHODS:** If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**European Waste Code:** 080111 Packaging Waste Code: 150110

# **SECTION 14: Transport Information**

		ADR/RID	ADN	IMDG	IATA
14.1	UN-number or ID number	UN 2735	UN 2735	UN 2735	UN 2735
14.2	UN proper shipping name	Amines, Liquid, Corrosive, N.O.S	Amines, Liquid, Corrosive, N.O.S	Amines, Liquid, Corrosive, N.O.S	Amines, Liquid, Corrosive, N.O.S
14.3	Transport Hazard Class(es)	8	8	8	8
14.4	Packing Group	III	III	Ш	III
14.5	Enviromental Hazards	No Information	No Information	No Information	No Information

14.6 Special precautions for user Unknown EmS-No.: F-A, S-B

14.7 Maritime transport in bulk according to IMO Unknown

intruments

# **SECTION 15: Regulatory Information**

## 15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

**National Regulations:** 

Denmark Product Registration Number:

Danish MAL Code:

Not available

Danish MAL Code - Mixture:

Not available

Sweden Product Registration Number:

Not available

Norway Product Registration Number:

Not available

Germany WGK Class:

Not available

Covered by Directive 2012/18/EC (Seveso III): Not applicable

Restrictions to product or to substances according

to Annex XVII, Regulation (CE) 1907/2006: Not applicable

Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:

4-nonylphenol, branched

CAS-No. Name According to EEC

Not Applicable

84852-15-3

SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

CAS-No. Name According to EEC

## 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# SECTION 16: Other Information

## Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

#### Reasons for revision

Composition Information Changed

Substance and/or Product Properties Changed in Section(s):

01 - Identification

02 - Hazard Identification

03 - Composition/Information On Ingredients 08 - Exposure Controls/Personal Protection

09 - Physical and Chemical Properties

11 - Toxicological Information
14 - Transportation Information
15 - Regulatory Information
Revision Statement(s) Changed

#### List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

#### Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation

EC European Commission
EU European Union
US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit
STEL Short term exposure limit
OEL Occupational exposure limit

ppm Parts per million
mg/m3 Milligrams per cubic meter
TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits
VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration

IC50 Half maximal inhibitory concentration

PBT Persistent bioaccumulative toxic chemical

vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code
IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978

IBC International Bulk Container
RTI Respiratory Tract Irritation

NE Narcotic Effects

IMO International Maritime Organization

Note P: The classification as a carcinogen or mutagen need not apply; the substance

contains less than 0,1 % w/w benzene

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in

powder form containing 1 % or more of titanium dioxide which is in the form of

or incorporated in particles with aerodynamic diameter  $\leq$  10  $\mu m$ .

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.