

# **Safety Data Sheet**

# prepared to UN GHS Revision 3

## 1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier F01-220-FUH-B-NT-180 Revision Date: 07/04/2017

Supercedes Date:

New SDS

Product Name: Flowcrete Universal Hardener -

Natural

1.2 Relevant identified uses of the substance or mixture and uses

advised against

No Information

1.3 Details of the supplier of the safety data sheet

Importer: Flowcrete Australia Pty Ltd

Unit 2, 41 Deakin Street Brendale Queensland 4500

Australia

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1.4 Emergency telephone number: CHEMTREC 1-800-424-9300 (Inside US)

CHEMTREC +1 703 5273887 (Outside US)

# 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Acute, category 1 Hazardous to the aquatic environment, Chronic, category 1 Reproductive Toxicity, category 2 Skin Corrosion, category 1

### 2.2 Label elements

### Symbol(s) of Product





### Signal Word

Danger

### Named Chemicals on Label

Nonylphenol

### HAZARD STATEMENTS

Skin Corrosion, category 1 Reproductive Toxicity, category 2	H314-1 H361	Causes severe skin burns and eye damage. 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	RECAUTION 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.		
	P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.		
P308+P313		IF exposed or concerned: Get medical advice/attention		
	P391	Collect spillage.		

### 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.

# 3. Composition/Information On Ingredients

### 3.2 Mixtures

## **Hazardous Ingredients**

CAS-No.	Chemical Name	<u>%</u>
25154-52-3	Nonylphenol	25-50
9046-10-0	polyoxypropylenediamine	25-50
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	2.5-10
71074-89-0	bis (dimethylaminomethyl) phenol	1.0-2.5

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
25154-52-3	GHS05-GHS07-GHS08-GHS09	H302-314-361-400-410	0
9046-10-0	GHS05-GHS09	H314-411	0
90-72-2	GHS07	H315-319	0
71074-89-0	GHS05	H314	0

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

### 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

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

## 5. Fire-fighting 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.

### Accidental Release Measures

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

Ensure adequate ventilation. Use personal protective equipment.

#### 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

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING:** Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist.

PROTECTION AND HYGIENE MEASURES: 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.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

# Ingredients with Occupational Exposure Limits

(AU)

<u>Name</u>	CAS-No.	TWA ppm	STEL ppm	TWA mg/m3	STEL mg/m3
Nonylphenol	25154-52-3				
polyoxypropylenediamine	9046-10-0				
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2				
bis (dimethylaminomethyl) phenol	71074-89-0				
<u>Name</u>	CAS-No.	OEL Note			

Nonylphenol 25154-52-3
polyoxypropylenediamine 9046-10-0
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2
bis (dimethylaminomethyl) phenol 71074-89-0

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

### 8.2 Exposure controls

**Personal Protection** 

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

EYE PROTECTION: Tightly fitting safety goggles. Face-shield.

**HAND PROTECTION:** Rubber or plastic gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Rubber or plastic apron.

OTHER PROTECTIVE EQUIPMENT: No Information

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

# 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Not determined

Physical State Liquid
Odor slight

Odor threshold

pH

Not determined

Melting point / freezing point (°C)

Not determined

Not determined

Boiling point/range (°C) N.D. - N.D.

Flash Point, (°C)

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

Upper/lower flammability or explosive Not determined

limits

Vapour Pressure Not determined Vapour density Not determined Relative density varies by colour 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 Viscosity Not determined **Explosive properties** Not determined

9.2 Other information

Oxidising properties

VOC Content g/l: 0

Specific Gravity (g/cm3) 0.120

# 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.

# 11. Toxicological Information

### 11.1 Information on toxicological effects

**Acute Toxicity:** 

Oral LD50: No information available.

Inhalation LC50: No information available.

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

**Toxicity for reproduction:** 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.	<u>Chemical Name</u>	Oral LD50	Dermal LD50	Vapor LC50
25154-52-3	Nonylphenol	1620 mg/kg oral		
9046-10-0	polyoxypropylenediamine	2855 mg/kg, rat	2980 mg/kg, rabbit	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	2169 mg/kg oral		

### **Additional Information:**

No Information

# 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 Other adverse effects: No information

CAS-No.	<u>Chemical Name</u>	EC50 48hr	IC50 72hr	LC50 96hr
25154-52-3	Nonylphenol	0.0848 mg/l	No information	0.128 mg/l
9046-10-0	polyoxypropylenediamine	No information	No information	Not available
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	No information	No information	Not available
71074-89-0	bis (dimethylaminomethyl) phenol	No information	No information	Not available

# 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.

### 14. Transport Information

**14.1 UN number** 2289

14.2 UN proper shipping name Not applicableTechnical name Not applicable

14.3 Transport hazard class(es) 8

Subsidiary shipping hazard Not applicable

14.4 Packing group III14.5 Environmental hazards N/A

14.6 Special precautions for user Not applicable EmS-No.: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable

14.8 ADG Hazchem Code 2X

# 15. Regulatory Information

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

National Regulations:

Denmark Product Registration Number: Not available

Danish MAL Code: Not available

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Norway Product Registration Number: Not available

WGK Class: Not available

### 15.2 Chemical Safety Assessment:

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

## 16. Other Information

#### Text for GHS 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

No Information

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; European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP); EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

### 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

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.