



Safety Data Sheet
prepared to UN GHS Revision 3

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

| | | | |
|--|--|-------------------------|------------|
| 1.1 Product Identifier | F01-203-FESDC-B-NT-0.421 | Revision Date: | 07/04/2017 |
| Product Name: | Flowprime ESD Conductive - Hardener B | Supersedes Date: | New SDS |
| 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 Phone: +61 7 3205 7115 Fax: +61 7 3205 3116 australia@flowcrete.com www.flowcreteaustralia.com.au | | |
| Datasheet Produced by: | Hadadek, Mohd - malaysia@flowcrete.com | | |
| 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

Serious Eye Damage, category 1

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

Decanoic acid, compds. with 1,3-benzenedimethanamine-bisphenol A-bisphenol Adiglycidyl ether-diethylenetriamine glycidyl Ph ether reactionproduct-epichlorohydrin-formaldehyde-propyleneoxide-triethylenetetramine polymer

HAZARD STATEMENTS

Serious Eye Damage, category 1 H318 Causes serious eye damage.

PRECAUTION PHRASES

P280 Wear protective gloves/protective clothing/eye protection/
face protection.
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or
doctor/physician.
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.

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**

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>%</u> |
|----------------|--|----------|
| 260549-92-6 | Decanoic acid, compds. with 1,3-benzenedimethanamine-bisphenol A-bisphenol Adiglycidyl ether-diethylenetriamine glycidyl Ph ether reactionproduct-epichlorohydrin-formaldehyde-propyleneoxide-triethylenetetramine polymer | 25-50 |

| <u>CAS-No.</u> | <u>GHS Symbols</u> | <u>GHS Hazard Statements</u> | <u>M-Factors</u> |
|----------------|--------------------|------------------------------|------------------|
| 260549-92-6 | GHS05 | H318 | 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. Call a physician or poison control centre immediately.

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

AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. 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.

6. Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Pick up and transfer to properly labelled containers. Prevent further leakage or spillage if safe to do so.

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:** Wear personal protective equipment. Avoid contact with skin and clothing.**PROTECTION AND HYGIENE MEASURES:** When using, do not eat, drink or smoke.**7.2 Conditions for safe storage, including any incompatibilities****CONDITIONS TO AVOID:** No Information**STORAGE CONDITIONS:** Keep container tightly closed in a dry and well-ventilated place.**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> | <u>CAS-No.</u> | <u>TWA ppm</u> | <u>STEL ppm</u> | <u>TWA mg/m3</u> | <u>STEL mg/m3</u> |
|--|----------------|----------------|-----------------|------------------|-------------------|
| Decanoic acid, compds. with 1,3-benzenedimethanamine-bisphenol A-bisphenol Adiglycidyl ether-diethylenetriamine glycidyl Ph ether reactionproduct-epichlorohydrin-formaldehyde-propyleneoxide-triethylenetetramine polymer | 260549-92-6 | | | | |

| <u>Name</u> | <u>CAS-No.</u> | <u>OEL Note</u> |
|--|----------------|-----------------|
| Decanoic acid, compds. with 1,3-benzenedimethanamine-bisphenol A-bisphenol Adiglycidyl ether-diethylenetriamine glycidyl Ph ether reactionproduct-epichlorohydrin-formaldehyde-propyleneoxide-triethylenetetramine polymer | 260549-92-6 | |

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

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: No Information

EYE PROTECTION: Tightly fitting safety goggles.

HAND PROTECTION: Impervious butyl rubber gloves. Chemical resistant apron. Long sleeved clothing. Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|---|--------------------|
| Appearance: | Brown/Amber liquid |
| Physical State | Liquid |
| Odor | Amine like |
| Odor threshold | Not determined |
| pH | Not determined |
| Melting point / freezing point (°C) | Not determined |
| Boiling point/range (°C) | N.D. - N.D. |
| Flash Point, (°C) | 100 |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not determined |
| Upper/lower flammability or explosive limits | Not determined |
| Vapour Pressure | Not determined |
| Vapour density | Not determined |
| Relative density | ~1.6 |
| Solubility in / Miscibility with water | >70% |
| 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 |
| Oxidising properties | Not determined |

9.2 Other information

| | |
|--|-------|
| VOC Content g/l: | 0 |
| Specific Gravity (g/cm³) | 0.057 |

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

No Information

10.3 Possibility of hazardous reactions

No Information

10.4 Conditions to avoid

No Information

10.5 Incompatible materials

No Information

10.6 Hazardous decomposition products

No Information

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:

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Oral LD50</u> | <u>Dermal LD50</u> | <u>Vapor LC50</u> |
|----------------|----------------------|------------------|--------------------|-------------------|
|----------------|----------------------|------------------|--------------------|-------------------|

Data at the substance level is not available.

Additional Information:

Corrosive - causes irreversible eye damage.

12. Ecological Information**12.1 Toxicity:****EC50 48hr (Daphnia):** No information**IC50 72hr (Algae):** No information**LC50 96hr (fish):** 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 assessment:** The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.
- 12.6 Other adverse effects:** Avoid subsoil penetration.
Prevent product from entering drains, do not contaminate surface water.

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>EC50 48hr</u> | <u>IC50 72hr</u> | <u>LC50 96hr</u> |
|----------------|--|------------------|------------------|------------------|
| 260549-92-6 | Decanoic acid, compds. with 1,3-benzenedimethanamine-bisphenol A-bisphenol Adiglycidyl ether-diethylenetriamine glycidyl Ph ether reactionproduct-epichlorohydrin-formaldehyde-propyleneoxide-triethylenetetramine polymer | No information | No information | No information |

13. Disposal Considerations

- 13.1 WASTE TREATMENT METHODS:** It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

14. Transport Information

- 14.1 UN number:** Not applicable
- 14.2 UN proper shipping name:** Not regulated for transport according to U.S. DOT, ADR/RID, IMDG, and IATA regulations.
- Technical name:** Not applicable
- 14.3 Transport hazard class(es):** Not applicable
- Subsidiary shipping hazard:** Not applicable
- 14.4 Packing group:** Not applicable
- 14.5 Environmental hazards:** Not applicable
- 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:** Not applicable

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:

H318 Causes serious eye damage.

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/m ³ | 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.

