



Safety Data Sheet

prepared to UN GHS Revision 3

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

1.1	Product Identifier	Flowtex Sealer AUS Hardener B	Revision Date:	02.04.2019
	Product Name:	Flowtex Sealer AUS	Supersedes Date:	New SDS
1.2	Relevant identified uses of the substance or mixture and uses advised against	Curing agent for Compset Epoxy Resins Formulated polyamine adducts for civil engineering products		
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		
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

Skin Irrit.2	H315 Causes skin irritation.
Eye Dam.1	H318 Causes serious eye damage
Skin Sens. 1	H317 May cause an allergic skin reaction.

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

Dibenzoyl-peroxide, dicyclohexyl phthalate

HAZARD STATEMENTS

H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H410	Toxic to aquatic life with long lasting effects.

PRECAUTION PHRASES

P262	Do not get in eyes, on skin or on clothing.
P261	Avoid breathing dust/fume/gas/mist/spray
P264	Wash hands thoroughly after handling.
P272	Contaminated clothing should not be allowed out of workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: wash with plenty of soap and water.
P362	Take off contaminated clothing and wash before use.
P333+313	If skin irritation or rash occurs, get medical advice/attention.
P305+P351	IF IN EYES: Rinse cautiously with water for several minutes.
P310	Immediately calls a POISON CENTRE/doctor/physician/first aider
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional /national/international regulations.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

Chemical Entity	C.A.S. No.	Haz	R-phrases	Concentration
Isophorone diamine	2855-13-2	C	R21/22-R34-R43	60% - 80%
Benzyl Alcohol	100-51-6			20%-25%

Non-hazardous ingredients or those not affecting classification to 100%

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



- Inhalation: If effects occur, supply fresh air and seek medical attention.
In case of unconsciousness place patient stably in side position for transportation.
Take affected persons into fresh air and keep quiet.
- Skin contact: Wash skin thoroughly with soap and flowing water for 15 minutes. DO NOT use solvents to remove product from skin. It is recommended to remove contaminated clothing immediately. Wash clothing thoroughly before re-use. Discard contaminated footwear.
- Eye contact: Hold eyes open and wash thoroughly with flowing water for 15 minutes. Seek prompt medical attention by a doctor.
- Swallowing: DO NOT induce vomiting. Give a glass of water. Call doctor and/or transport to a hospital promptly.
- Advice to Doctor: No specific antidote. Supportive care. Treatment based on the judgement of doctor in response to the reactions of the patient. Skin contact may cause dermatitis; treat as any contact dermatitis.

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:

Extinguish with foam, water, dry chemical or carbon dioxide. Drums may rupture when exposed to fire conditions. Wear positive pressure, self-contained breathing apparatus. Decomposition products including phenolics, carbon monoxide and water.

5.2 Special hazards arising from the substance or mixture:

Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxide.

5.3 Advice for firefighters:

Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Self-protection first!

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up

Soak up in an absorbent material, such as sand, sawdust or absorbent clay. Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and Storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace Refer to Section 8 of this MSDS for details of personal protection measures.

7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Store in cool place away from heat and ignition sources. Keep partially used product containers closed. Store away from foodstuffs, clothing and keep out of reach of children. Store away from amines.

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

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

8.2 Exposure controls

Exposure limits: Not established for product or individual components.

Ventilation: Provide general and / or local exhaust Ventilation, depending on type of operations, to control airborne exposures.

Personal protective equipment

Respiratory: Not required for normal operations. For emergency conditions, use an approved positive pressure self-contained breathing apparatus.

Hands: Protect hands with impervious gloves when handling or using this product. The selection of gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

DO NOT use barrier creams containing emulsified fats and oils as these may absorb the resin.

Skin and Body protection: Choose body protection in relation to its type, concentration, volume and amount of dangerous substances, and to the specific work place. Wear boots.

Eyes: Wear chemical goggles. Eye wash facilities should be located in the immediate work area.

Selection and the use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian Standards, including:

AS 1336: Recommended practices for eye protection in the industrial environment.

AS/NZS 1337: Eye protectors for industrial application.

AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.

AS 2161: Industrial safety gloves and mittens (excluding electrical and medical gloves).

AS/NZS 2210: Occupational protective footwear.

AS 2919: Industrial clothing.

BIOLOGICAL LIMIT: No biological limit allocated

· Respiratory protection:

Not necessary if room is well-ventilated.

· Protection of hands:

Only use chemical-protective gloves with CE-labelling of category III.



Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Protective gloves

· Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Neoprene

· Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection:



Protective work clothing

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: clear - amber liquid	Percent Volatile: < 2%
Odour: Amine like	Specific Gravity: 0.96 – 1.08
pH: Not Determined	Flammability Limits: N/A
Vapour Pressure: Not Determined	Boiling Point: Not Determined
Vapour Density: Not Determined	Flash Point: 110 °C PMCC
Auto Ignition: Not Determined	Solubility /miscibility with water Slight

9.2 Other information

No other relevant information.

10. Stability and Reactivity

10.1 Reactivity

No Information

10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

Decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.

Stable under recommended storage conditions. Refer to Section 7 of this MSDS.

10.3 Possibility of hazardous reactions

Will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

10.4 Conditions to avoid

Avoid temperatures above 300°C (572°F) Potentially violent decomposition can occur above 350°C (662°F) Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

10.5 Incompatible materials

Avoid contact with oxidizing materials. Avoid contact with: Acids, Bases. Avoid unintended contact with amines.

10.6 Hazardous decomposition products

No hazardous decomposition products if used and stored according to specifications.

11. Toxicological Information

11.1 Information on toxicological effects

Short Term Hazards (Acute Exposure):

LD50 values that is relevant for classification:
CAS 2855-13-2 aminomethyl-3, 5, 5-trimethylcyclohexylamine IPD
Oral LD50 > 1030 mg/kg (rat)
Dermal LD50 > 1840 mg/kg (rabbit)

Primary irritant effect on the skin irritant to skin and mucus membranes on the eye irritating effect sensitisation Sensitisation possible through skin contact

Long Term Hazards (Chronic Exposure):

Inhaled: Prolonged exposure to high concentrations of vapour may affect the central nervous system.
on the skin: Product may be a skin sensitiser in some individuals.
on the eye: Corneal injury.

12. Ecological Information

12.1 Toxicity:

LC50/EC50/IC50 values that is relevant for classification:
CAS 2855-13-2 aminomethyl-3, 5, 5-trimethylcyclohexylamine IPD
Ecotoxicity:
Algae toxicity >50 mg/l (*Scenedesmus subspicatus*) (ErC50(72h))
Bacteria toxicity 1120 mg/l (*Pseudomonas putida*) (EC10(18h))
Daphnia toxicity 23 mg/l (*Daphnia magna*) (EC50(48h))
Fish toxicity 110 mg/l (*Leuciscus idus*) (LC50(96h))
· Remark: Harmful to fish

12.2 Persistence and degradability:

· Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential:

· Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil:

· Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment:

No information

12.6 Other adverse effects:

No information

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: In accordance with local and national regulations.

Disposal: Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

14. Transport Information

14.1 UN number

2735

Labels required



HAZCHEM 2X

ADG Road and Rail

Proper Shipping Name:

Hazard Class: 8
Hazchem Code: 2X
Limited quantity: 5L

AMINES, LIQUID, CORROSIVE, N.O.S.
 (contains Isophorone diamine)

ID Number: UN 2735

Packing Group: III

Special provisions: 223 274



IMDG

Proper Shipping Name:

Hazard Class: 8
Hazchem Code: 2X
Limited quantity: 5L
Marine pollutant: No

AMINES, LIQUID, CORROSIVE, N.O.S.
 (contains Isophorone diamine)

ID Number: UN 2735

Packing Group: III

Special provisions: 223 274



ICAO/ IATA

Proper Shipping Name:

Hazard Class: 8
Hazchem Code: 2X

AMINES, LIQUID, CORROSIVE, N.O.S.
 (contains Isophorone diamine)

ID Number: UN 2735

Packing Group: III



15. Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Acronyms

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Service Registry Number

Hazchem Code: Emergency action code that provides information to emergency services

UN Number: United Nations Number

R20/22 Harmful by inhalation and if swallowed

R34 Causes burns

R36/38 Irritating to eyes and skin R43 May cause sensitisation by skin contact R51 Harmful to aquatic organisms R53 May cause long-term adverse effects in the aquatic environment

IMPORTANT NOTE:

Data quoted is typical for the product, but does not constitute a specification, and is based on the most accurate information available to Flowcrete at the time of writing. All information contained herein is given in good faith, but is subject to change without notice.

This MSDS has been prepared in alignment with the NOHSC document *National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition* [NOHSC: 2011(2003)]