

1. IDENTIFICATION

Supplier: Know-How Concrete Technologies
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Product Name: **H²Opoxy - Part 'A'**
Proper Shipping Name: Water Based Epoxy
Product Use: Epoxy emulsion component of an Aqueous two-part epoxy sealer for concrete surfaces.
Other Names: H²O Epoxy Component
Chemical Family: Epoxy Resin
UN No: 3082
Recommended Use: Resin component of an Aqueous two-part Epoxy sealer for concrete surfaces

2. HAZARDS IDENTIFICATION

Health Hazard Classification: This product is classified as a **non-hazardous substance** according to the criteria of the National Occupational Health and Safety Commission Australia (SafeWork Australia) and in accordance with the GHS, and as **Non-dangerous good** according to the Australian Dangerous Goods (ADG) Code.

Emergency Overview: On Hardening by evaporation of water the product forms a hard film. Primary routes of exposure are considered to be inhalation, eye contact or skin contact.

Risk Phrases: R36 Irritating to eyes
 R 37/38: Irritating to respiratory system and skin

Safety Phrases: S2 Keep out of reach of children
 S25 Avoid contact with eyes
 S26 In case of contact with eyes, rinse immediately with plenty of water, seek medical advice

Dangerous Goods Classification: Not Applicable

Physical: Not Applicable

Health: Primary routes of exposure are considered to be inhalation; eye contact or skin contact

Environmental: Not Applicable

Signal word: Not applicable

Hazardous Statement: Non-Hazardous

Prevention: P260: Do not breathe mist/spray.
 P264: Wash skin thoroughly after handling.
 P280: Wear eye protection / face protection.

Response: P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363: Wash contaminated clothing before reuse.

Storage and Transport: Keep from freezing, material may coagulate. The minimum recommended storage temperature for this material is 1°C, Maximum recommended storage temperature for this material is 50°C Monomer vapours can be evolved when material is heated during processing operations. See ENGINEERING CONTROLS and PERSONAL PROTECTION sections for types of ventilation required. This material is NOT Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

Disposal: P501: Dispose of contents/container in accordance with Jurisdictional Regulations.

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3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Liquid Epoxy Resin	25068-38-6	30-40%
Reactive Diluent CGE	26447-14-31	0-10%

Other ingredients determined not to be hazardous, including water to 100%

4. FIRST AID MEASURES

Scheduled Poisons

Poisons Information Centre in each Australian State Capital city can provide additional assistance for scheduled poisons. (Phone Australia 13 11 26) or a doctor (at once).

First Aid Facilities

Eye wash fountains and general washing facility should be easily accessible in the immediate work area.

General

On hardening by evaporation of water the product forms a hard film

Ingestion (Swallowed)

If swallowed give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

Eye Contact

If in eyes, hold eyelids apart and Flush eyes continuously with running water for at least 15 minutes. If irritation develops seek medical attention.

Skin Contact

Remove soiled clothing and wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Inhalation

Remove affected person from contaminated area to fresh air and seek medical advice.

Advice to Doctor

Take this Material Safety Data Sheet (MSDS) to doctor. Treat symptomatically.

5. FIRE FIGHTING HAZARD / MEASURES

Unusual Hazards

Material can splatter above 100 °C. Dried product can burn

Suitable Extinguishing Media

Define extinguishing measures according to neighbouring conditions.

Precautions for Fire Fighting

Wear self-contained breathing apparatus (pressure-demand AS1716 approved or equivalent) and full protective gear.

Hazchem Code

None Allocated

Flash Point

Not Applicable

Flammability

Product is non-flammable according to Australian code for Transport of Dangerous Goods.

6. HAZARDOUS REACTION**Instability**

This material is considered stable. However, avoid temperatures above 177°C. the onset of polymer decomposition. Thermal decomposition on time and temperature.

Hazardous Decomposition Products

Thermal decomposition may yield acrylic monomers.

Hazardous Polymerization

Product will not undergo polymerization.

7. ACCIDENTAL RELEASE MEASURES**Spills:****Personal Precautions**

Appropriate equipment must be worn when handling a spill of this material. See PERSONAL PROTECTION section under EXPOSURE CONTROLS section for recommendations. If exposed to material during clean-up operations, see FIRST AID MEASURES section for actions to follow.

Methods of cleaning up/of removing

Keep spectators away, Floor may be slippery, use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid dyking material to separate suitable containers for recovery or disposal.

CAUTION:

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

8. HANDLING AND STORAGE**Handling**

Avoid all personal contact, including skin and eye contact and contamination of clothing. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use.

Information about Fire and Explosion Protection:

No specific measures required.

Conditions for safe storage

Keep from freezing, material may coagulate. The minimum recommended storage temperature for this material is 1°C
Maximum recommended storage temperature for this material is 50°C Monomer vapours can be evolved when material is heated during processing operations. See ENGINEERING CONTROLS and PERSONAL PROTECTION sections for types of ventilation required.

Storage Class

N.A

Unsuitable Materials for Receptacles

unknown

Further Information about storage conditions

Formaldehyde above the National Occupational Health and Safety Commission Exposure Standard – TWA for formaldehyde of 1.2 mg/m³ (1ppm)

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9. EXPOSURE CONTROLS: PERSONAL PROTECTION

Exposure Limits

National Occupational Exposure Limits, as published by SafeWork Australia:

Time-weighted Average (TWA): None established for product.

Short Term Exposure Limit (STEL): None established for product.

Engineering Controls: use local exhaust ventilation with a minimum capture velocity of 0.5 meters/second at the point of vapour evolution. Refer to Australian Standards AS1688

Personal Protective Equipment

Respiratory Protection: A respiratory protection programme meeting AS1716 and AS1715 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the TWA/STEL's listed in the National occupational exposure Standards sections. For airborne concentrations up to 10 times the TWA/STEL's listed in the NOWS section. Wear an Australian Standards approved (or equivalent) half-mask, air purifying respirator. Air-purifying respirators should be equipped with an ammonia/methylamine cartridge and dust/must filters.

Eye Protection: Use chemical splash goggles (AS1337 or approved equivalent)

Hand Protection: Gloves made from neoprene may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection.

Clothing: Suitable protective clothing.

Flammability: Non-combustible

10. PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value
Physical Description/Properties	
Appearance	White Opaque Liquid
Colour	White Opaque
Odour	Almost Odourless.
pH	7-8
Vapour Pressure	Not measured
Particle Size	<5 micron
Boiling Point/Range	Approx. 100°C
Auto Ignition Temperature	N/A
Melting Point	Not Measured
Solubility in Water	Dilatable
Specific Gravity	Approx. 1.10-1.30
Flashpoint	N/A
Flammability Limits	252°C will support combustion
Other Properties	
Per Cent Volatiles	35-45% w/w

11. ECOLOGICAL INFORMATION

Eco toxic Effects

None available for product

General

DO NOT DISCHARGE INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Inform local authorities if this occurs.

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12. TOXICOLOGICAL INFORMATION

Health Effects - Acute

Ingestion (Swallowed)	Low toxicity LD50 (oral rat) >5000mg/kg.
Eye	direct contact with product can cause slight irritation to the eyes.
Skin	Mild, may cause allergic reaction to sensitised individuals. Susceptible individuals may develop asthma-like symptoms on a single significant exposure
Inhalation	High concentrations of vapour may cause slight irritation of the respiratory tract. Unlikely unless heated.
Acute Toxicity Data	The information shown in the TOXICOLOGICAL INFORMATION Section is based on the Toxicity profiles for a number of acrylic emulsions that are compositionally similar to this product
(Oral)LD50	rat: >10,000mg/kg
(Dermal)LD50	rabbit: >10,000 mg/kg
(Skin Irritation)	rabbit: practically non-irritation
(Eye Irritation)	rabbit: inconsequential irritation.

13. DISPOSAL CONSIDERATIONS

Procedure: Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant liquid and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and national regulations.

14. TRANSPORTATION INFORMATION

General

This material is NOT Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

Road and Rail Transport	
UN No.	3082
Proper Shipping Name	Water Based Epoxy Component A
DG Class	N/A
Sub. Risk	None
Pack Group	N/A
Hazchem Code	N/A
Poisons Schedule Number	5

15. REGULATORY INFORMATION

SUSMP	None Allocated
AICS	All ingredients present on ACIS
Packaging & Labelling:	Keep clearly labelled and in original sealed container

16. OTHER INFORMATION**Acronyms and Comments**

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail.
AICS	Australian Inventory of Chemical Substances.
CAS Number	Chemical abstracts Service Registry Number.
HAZCHEM	An emergency action code of numbers and letters which gives information to emergency services.
IERG	Dangerous Goods Initial Emergency Response Guide (HB 76:2010 Standards Australia)
Safe Work Australia	Safe Work Australia was formerly the Australian Safety and Compensation Council, which included the National Occupational Health and Safety Commission (NOHSC)
SDS	Safety Data Sheet
STEL	Exposed standard –short term exposure limit, a 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.
TWA	Exposed standard – time –weighted average, the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.
UN Number	United Nations Number
Issue Date	18 August 2016
Supersedes Issue Date	March 2012
Revision Information	New format
Contact Point	Regulatory Affairs Manager
Contact Number	(07) 3274 1000
Note	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.
Disclaimer	This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since Know-How Concrete Technologies cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. This SDS does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. If clarification or further information is needed to ensure that and appropriate assessment can be made, the user should contact this company.