

**1. IDENTIFICATION**

**Supplier:** Know-How Concrete Technologies  
**ABN:** 15 086 008 068  
**Address:** Unit 1-708 Boundary Road, Coopers Plains, QLD, 4108, Australia  
**Telephone:** (07) 3274 1000  
**National Poisons Information Centre (For Emergency):** (+61) 131 126 (24 hours)  
**Fax:** (07) 3274 1006  
**Web Page:** [www.knowhowconcrete.com.au](http://www.knowhowconcrete.com.au)

**Product Name:** **H<sup>2</sup>Opoxy - Part 'B'**  
**Proper Shipping Name:** Water Based Epoxy  
**Product Use:** Epoxy hardener component of an Aqueous two-part epoxy sealer for concrete surfaces.  
**Other Names:** H<sup>2</sup>O Epoxy Polyamides  
**Chemical Family:** Epoxy Resin  
**UN No:** No Applicable  
**Recommended Use:** Epoxy hardener 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. Formaldehyde may be generated under acidic conditions, maintain adequate ventilation to prevent exposure to formaldehyde above the NOHSC exposure standard -TWA for Formaldehyde of 1.2mg/m3 (1ppm)

**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)
Pigment	13463-67-1	0-25%
Calcium Carbonate	471-34-1	0-20%
Polyomino Amide	R36 R38 R43	30-40%
Acrylic Polymer	Not Hazardous	0-5%

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.

**Incompatibility**

There are no known materials which are incompatible with this product.

**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:**

See FIRE FIGHTING HAZARD/MEASURES Section.

**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.

**Note**

Formaldehyde may be generated under acidic conditions, maintain adequate ventilation to prevent exposure to formaldehyde above the NOHSC exposure standard -TWA for Formaldehyde of 1.2mg/m<sup>3</sup> (1ppm)

**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/m<sup>3</sup> (1ppm)

**9. EXPOSURE CONTROLS: PERSONAL PROTECTION**

**Exposure Limits**

National Occupational Exposure Limits, as published by National Occupational health and Safety Commission. They are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These Exposure Standards should not be used as fine dividing line between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. No NOHSC exposure standard is established for this product.

**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
<b>Physical Description/Properties</b>	
Appearance	Viscous Liquid
Colour	White Opaque / Clear
Odour	Almost Odourless.
pH	7-8
Vapour Pressure	Not measured
Particle Size	<20 micron
Boiling Point/Range	Approx. 100°C
Auto Ignition Temperature	N/A
Melting Point	Not Measured
Solubility in Water	Dilatable
Specific Gravity	Approx. 1.25-1.35
Flashpoint	N/A
Flammability Limits	No applicable
<b>Other Properties</b>	
Per Cent Volatiles	20-40 % w/w

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## 11. ECOLOGICAL INFORMATION

**Eco toxic Effects** None available for product  
**General** DO NOT DISCHARGE INTO DRAINS, WATERWAYS, SEWER OR ENVIROMENT.  
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.

## 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.

**Chronic** There have been no reports in the literature of health effects in workers arising from, long-term exposure to this substance and no comprehensive human studies have been concluded. No animal studies have been conducted for long term effects.

## 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.	Not Applicable
Proper Shipping Name	Water Based Epoxy
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**

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>AICS</b>	Australian Inventory of Chemical Substances.
<b>CAS Number</b>	Chemical abstracts Service Registry Number.
<b>HAZCHEM</b>	An emergency action code of numbers and letters which gives information to emergency services.
<b>IERG</b>	Dangerous Goods Initial Emergency Response Guide (HB 76:2010 Standards Australia)
<b>Safe Work Australia</b>	Safe Work Australia was formerly the Australian Safety and Compensation Council, which included the National Occupational Health and Safety Commission (NOHSC)
<b>SDS</b>	Safety Data Sheet
<b>STEL</b>	Exposed standard –short term exposure limit, a 15minute 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.
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons.
<b>TWA</b>	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.
<b>UN Number</b>	United Nations Number
<b>Issue Date</b>	18 August 2016
<b>Supersedes Issue Date</b>	March 2012
<b>Revision Information</b>	New format
<b>Contact Point</b>	Regulatory Affairs Manager
<b>Contact Number</b>	(07) 3274 1000
<b>Note</b>	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.
<b>Disclaimer</b>	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.