

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 1 of 10

SDS according to WHS and ADG requirements

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Epirez Epoxy Electrical Maintenance Kit 324A Resin
OTHER NAMES : Epirez 324A Electrical Maintenance Kit - Resin,
Epirez 324A Part A
PRODUCT USE : Electrical Repair Compound

PROPER SHIPPING NAME

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin)

DESCRIPTION

Base Resin or Part A of a 2 pack epoxy adhesive kit.

Requires that the two parts be mixed by hand or mixer before use, in accordance with manufacturer's directions. Mix only as much as is required. Do not return the mixed material to the original containers.

Use according to manufacturer's directions.

The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing.

SUPPLIER : Associated Gaskets Pty Ltd
68 Marigold Street,
Revesby, NSW 2212,
Australia

Telephone : +61 2 9774 3333

Fax : +61 2 9774 1100

Website : www.agaus.com.au

MANUFACTURER : ITW Polymers & Fluids
100 Hassall Street,
Wetherill Park, NSW 2164
Australia

Telephone : +61 2 9757 8800

Website : www.itwpf.com.au

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

2 - HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION STATEMENT

HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to the WHS Regulations and ADG Code Criteria.

Poison Schedule : S5
Classification : Skin Corrosion/Irritation – Category 2
Eye Irritation – Category 2A
Skin Sensitizer – Category 1
Chronic Aquatic Hazard – Category 2

LABEL ELEMENTS

Hazard Pictogram(s) :



GHS07



GHS09

Signal Word: **WARNING**

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 2 of 10

SDS according to WHS and ADG requirements

Hazard Statement(s):

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statement(s) Prevention:

- P280 Wear protective gloves/protection clothing/eye protection/face protection
- P261 Avoid breathing mist/vapours/spray
- P273 Avoid release to the environment
- P272 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statement(s) Response:

- P302+P352 **If on Skin:** Wash with plenty of soap and water
- P305+P351 **If on Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- +P338
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
- P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary Statement(s) Storage:

N/A

Precautionary Statement(s) Disposal:

- P501 Dispose of contents/container in accordance with local regulations

3 - COMPOSITION / INFORMATION ON INGREDIENTS

| <u>NAME</u> | <u>CAS No</u> | <u>%</u> |
|---------------------------------------|---------------|----------|
| Bisphenol A/ Diglycidyl Resin, liquid | 25068-38-6 | >60 |
| Reactive Diluant | -- | 10-20 |

4 - FIRST AID MEASURES

INGESTION

- **If swallowed do NOT induce vomiting.**
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth. Then, provide liquid slowly and as much as casualty can comfortable drink.
- Seek medical advice.

EYE CONTACT

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 3 of 10

SDS according to WHS and ADG requirements

SKIN CONTACT

If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

NOTES TO PHYSICIAN

Treat symptomatically.

5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Foam
- Carbon dioxide
- Dry chemical powder
- BCF (where regulations permit)

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.
- Use water delivered as a fine spray to control the fire and cool down surrounding area.

FIRE / EXPLOSION HAZARD

- Combustible.
- Slight fire hazard when exposed to heat or flame.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).
- Combustion products include carbon dioxide (CO₂), aldehydes, and other pyrolysis products typical of burning organic material.

FIRE INCOMPATIBILITY

- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.

HAZCHEM

3Z

6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

Environmental hazard - contain spillage:

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 4 of 10

SDS according to WHS and ADG requirements

MAJOR SPILLS

Environmental hazard - contain spillage (Moderate hazard):

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.

Personal Protective Equipment advice is contained in Section 8 of this SDS.

7 - HANDLING AND STORAGE

SAFE HANDLING

- **DO NOT allow clothing wet with material to stay in contact with skin.**
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights, heat or ignition sources.
- Store in a cool, dry, well-ventilated area.

SUITABLE CONTAINER

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

- Avoid cross contamination between the two liquid parts of product (kit).
- If two-part products are mixed or allowed to mix in proportions other than manufacturer's recommendation, polymerisation with gelation and evolution of heat (exotherm) may occur.
- This excess heat may generate toxic vapour.
- Avoid reaction with amines, mercaptans, strong acids and oxidising agents.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS (OEL)

Emergency Limits:

| Ingredient | Material Name | TEEL-1 | TEEL-2 | TEEL-3 |
|---------------------------------------|---|----------------------|-----------------------|------------------------|
| Bisphenol A/ Diglycidyl Resin, Liquid | Epoxy resin includes EPON 1001, 1007, 820, ERL-2795 | 90 mg/m ³ | 990 mg/m ³ | 5900 mg/m ³ |

TEEL-3 is the airborne concentration (expressed as ppm [parts per million] or mg/m³ [milligrams per cubic meter]) of a substance above which it is predicted that the general population, including susceptible individuals, when exposed for more than one hour, could experience life-threatening adverse health effects or death.

TEEL-2 is the airborne concentration (expressed as ppm or mg/m³) of a substance above which it is predicted that the general population, including susceptible individuals, when exposed for more than one hour, could experience irreversible or other serious, long-lasting, adverse health effects or an impaired ability to escape.

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 5 of 10

SDS according to WHS and ADG requirements

TEEL-1 is the airborne concentration (expressed as ppm or mg/m³) of a substance above which it is predicted that the general population, including susceptible individuals, when exposed for more than one hour, could experience notable discomfort, irritation, or certain asymptomatic, no sensory effects. However, these effects are not disabling and are transient and reversible upon cessation of exposure.

EXPOSURE CONTROLS

ENGINEERING CONTROLS

- Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
- The basic types of engineering controls are:
 - Process controls which involve changing the way a job activity or process is done to reduce the risk.
 - Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
- Refer also to protective measures for the other component used with the product. Read both SDS before using. Store and attach SDS together.

PERSONAL PROTECTION



EYE AND FACE PROTECTION

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

HANDS/FEET/SKIN PROTECTION

- When handling liquid-grade epoxy resins wear chemically protective gloves, boots and aprons. (EVAL laminate, Butyl Rubber, Nitrile Butyl Rubber, and Neoprene Rubber performing from excellent to fair)
- DO NOT use cotton or leather (which absorb and concentrate the resin), natural rubber (latex) or polyethylene gloves (which absorb the resin).
- DO NOT use barrier creams containing emulsified fats and oils as these may absorb the resin; silicone-based barrier creams should be reviewed prior to use.
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.
- Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:
 - Frequency and duration of contact,
 - Chemical resistance of glove material,

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 6 of 10

SDS according to WHS and ADG requirements

- Glove thickness, and
- Dexterity.

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watchbands should be removed and destroyed.

OTHER PROTECTION

- Overalls
- P.V.C. apron
- Barrier cream
- Skin cleansing cream

RESPIRATORY PROTECTION

- Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)
- The selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

- Clear viscous liquid mixture with. Immiscible with water.

PHYSICAL STAGE

- Liquid, relative density 1.1

ODOUR

- Strong ammoniacal odour

PHYSICAL PROPERTIES

| | | | |
|----------------------------|-----------------|-----------------------------|----------------|
| Boiling Range (°C) | : Not Available | Solubility in Water (g/L) : | Immiscible |
| Flash Point (°C) | : >100 (PMCC) | pH (1% solution) : | Not Applicable |
| Decomposition Temp (°C): | Not Available | pH (as supplied) : | Not Applicable |
| Autoignition Temp (°C) : | Not Available | Vapour Pressure (kPa) : | Not Available |
| Upper Explosive Limit (%): | Not Available | Specific Gravity (water=1) | Not Available |
| Lower Explosive Limit (%): | Not Available | Evaporation Rate : | Not Available |
| Relative Vapour Density : | Not Available | Volatile Component (%vol) | Not Available |

10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY

- Unstable in the presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

For incompatible materials - refer to Section 7 - Handling and Storage.

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 7 of 10

SDS according to WHS and ADG requirements

11 - TOXICOLOGICAL INFORMATION

INGESTION

- Accidental ingestion of the material may be damaging to the health of the individual.

EYE CONTACT

- This material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.

SKIN

- Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.
- This material can cause inflammation of the skin on contact in some persons.
- Epoxy materials may cause allergic and/or contact dermatitis responses, which may occur on exposure or may become apparent only after repeated exposures. Sensitisation is possible.
- Photoallergic dermatitis may result from contact with the material. This type of response can be elicited only in individuals who has been previously allergically sensitised to the chemical agent.
- The material may accentuate any pre-existing dermatitis condition.

INHALED

- Not normally a hazard due to non-volatile nature of product.

CHRONIC HEALTH EFFECTS

- Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.
- Sensitisation may give severe responses to very low levels of exposure, i.e. hypersensitivity.
- Sensitised persons should not be allowed to work in situations where exposure may occur.

TOXICITY

- Bisphenol A/ Diglycidyl Ether Resin, Liquid laboratory tests on genetic toxicity has been negative. **NOT** classifiable as to its carcinogenicity to humans.

12 - ECOLOGICAL INFORMATION

Toxicity

- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Do not allow product to come in contact with surface waters or to intertidal areas below high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters
- This material and its container must be disposed of as hazardous waste.
- Avoid release to the environment.
- DO NOT discharge into sewer or waterways.**

ECOTOXICITY

| <u>Ingredient</u> | <u>Persistence Water/Soil</u> | <u>Persistence in Air</u> | <u>Bioaccumulation</u> | <u>Mobility</u> |
|-------------------------------------|-----------------------------------|-------------------------------|------------------------|-----------------|
| Bisphenol A/ Diglycidyl ether Resin | HIGH | HIGH | LOW | LOW |

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 8 of 10

SDS according to WHS and ADG requirements

13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Material may be disposed of by controlled burning in an approved incinerator or buried in an approved landfill.
- Prior to disposal in a landfill the material should be mixed with the other component and reacted to render the material inert.

14 - TRANSPORTATION INFORMATION

Labels Required



HAZCHEM: 3Z (ADG7)

ADG7 Land Transport:

| | | | |
|---------------------|------------------------|------------------|-------|
| Class or Division | : 9 | Subsidiary Risk | : NA |
| UN No | : 3082 | Packing Group | : III |
| Special Precautions | : 274 331 335 337 AU01 | Limited Quantity | : 5 L |

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains bisphenol A/ Diglycidyl ether resin, liquid).

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in: -

- (a) Packagings;*
- (b) IBCs; or*
- (c) Any other receptacle not exceeding 500 kg(L).*

- Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

Air Transport IATA:

| | | | |
|--------------------|----------------------|-------------------|-------|
| ICAO/IATA Class | : 9 | ICAO/IATA Subrisk | : NA |
| UN/ID Number | : 3082 | Packing Group | : III |
| Special Provisions | : A97 A158 A197 A215 | | |

Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains bisphenol A/ Diglycidyl ether resin, liquid)

Maritime Transport IMDG:

| | | | |
|--------------------|------------|--------------------|---------------|
| IMDG Class | : 9 | IMDG Subrisk | : NA |
| UN Number | : 3082 | Packing Group | : III |
| EMS Number | : F-A, S-F | Special Provisions | : 274 335 969 |
| Limited Quantities | : 5 L | Marine Pollutant | : Yes |

Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains bisphenol A/ Diglycidyl ether resin, liquid)

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 9 of 10

SDS according to WHS and ADG requirements

15 - REGULATORY INFORMATION

Indications of Danger: **N** Dangerous for the environment
 Xi Irritant

POISONS SCHEDULE : S5

Regulations for Ingredients

bisphenol A/ Diglycidyl ether resin, liquid (CAS: 25068-38-6) is found on the following regulatory lists:

Australia Hazardous Chemical Information System (HCIS) – Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) – Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) – Appendix E (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) – Schedule 5

16 - OTHER INFORMATION

Ingredients with multiple CAS numbers

Bisphenol A/ Diglycidyl ether Resin, liquid CAS No. 25068-38-6, 25085-99-8

The information sourced for the preparation of this document was compiled by competent technical personnel and it was correct and accurate to the best of our knowledge. The document represents the commitment to Associated Gaskets' responsibilities surrounding the supply of this product, undertaken in good faith.

This document should be taken as a safety guide for the product and its recommended uses, but it is in no way an absolute authority. No warranty or guarantee, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may involve other or additional safety or performance considerations.

Details of Acronyms and Abbreviations are detailed on the Addendum Page at the end of this document.

SAFETY DATA SHEET

Epirez Epoxy Electrical Maintenance Kit [324A] - Resin

Issue Date: 01/11/2019

Page 10 of 10

SDS according to WHS and ADG requirements

ACRONYMS AND ABBREVIATIONS

| | |
|-------------------|---|
| ADG | : Australian Dangerous Goods Code (Australia) |
| CAS | : Chemical Abstracts Service (USA) |
| CPR | : Cardiopulmonary Resuscitation |
| EmS or EMS | : Emergency Schedule as Listed in Emergency Response Procedures for Ships Carrying Dangerous Goods (EmS Guide) |
| IATA | : International Air Transport Association |
| ICAO | : International Civil Aviation Organization (A United Nations Agency) |
| IMDG | : International Maritime Dangerous Goods Code |
| Mg/m ³ | : Milligrams per Cubic Metre |
| NOHSC | : National Occupational Health and Safety Commission (Australia) |
| OEL | : Occupational Exposure Limits (UK) |
| OSF | : Odour Safety Factor |
| OTV | : Odour Threshold Value |
| PPM | : Parts Per Million |
| PVC | : Polyvinyl Chloride |
| Sk | : Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |
| STEL | : Short Term Exposure Limit |
| TEEL | : Temporary Emergency Exposure Limits |
| UN | : United Nations |
| WHS | : Workplace Health and Safety (Legislation) |

V000206

AG DOCg

End