

**Product Name** : RAMSET EPOXY PATCH PART B

Ramset NZ

**Other Names** :

A Division of ITW NZ Ltd

**Part No.** : EPPHL1, EPPHL3

PO Box 40-031

**MSDS No.** : NZ2202 (Read in conjunction with NZ2201)

Glenfield, Auckland

**Date & Issue** : NOV 03 ISSUE A

www.ramset.co.nz

**1: RECOMMENDED USE**

Hardener component of a Epoxy patching resin

**2: HAZARDS IDENTIFICATION**

UN No	: 1760	Hazchem Code	: 3X
Hazard Class	:	Poisons Schedule	: S5 (FED)
Subsidiary Risk	: None	CAS No	: None
SPEC EPG	: None	G T EPG	: 8A1
NIOSH	: None	Packing Group	: III
D G Class	: 8	IMDG	: None
Other	:	Other	:

**3: PHYSICAL DESCRIPTION & PROPERTIES**

Appearance	: Clear brown, slightly viscous liquid with a characteristic amine odour.	Boiling Point	: Not available
Flammability Limit	: Not available	Melting Point	: Not available
Specific Gravity	: Approx 1.02	Flashpoint	: >100°C
Form	: Not available	Other	:
Vapour Pressure	: Not available		
Solubility in Water	: Partly soluble		

**4: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	(CAS No)	Content Proportion
Benzyl alcohol	100-51-6	Medium
Isophoronediamine	2855-13-2	Medium
Aliphatic amine/phenol adduct		Medium
Phenol	108-95-2	Low
Diethylenetriamine (DETA)	111-40-0	Very Low

Contents: **H**igh >60% **M**edium 10 – 60% **L**ow 1 – 10% **V**ery Low <1%[PRINT DOCUMENT](#)[BACK TO CONTENTS](#)

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RAMSET NZ

: 09 444 3510

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**5: HEALTH HAZARD INFORMATION****\*\*TAKE A COPY OF THIS MSDS TO THE DOCTOR\*\*****HEALTH EFFECTS: ACUTE:**Eyes

The vapour / liquid is irritating to the eyes and may be corrosive and capable of causing burns.

Skin

Will cause severe damage to mucous membranes.

Inhaled:

The vapour is extremely irritating to the upper respiratory tract and repeated exposure may cause sensitisation and/or allergic reaction. Inhalation of vapours is more likely at higher than normal temperatures.

Swallowed:

Will cause severe damage to mucous membranes.

**HEALTH EFFECTS: CHRONIC:****FIRST AID**      **Take a copy of this MSDS to the Doctor.**Eyes

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

Skin

Wash thoroughly with plenty of mild soap and water for at least 15 minutes. Eyelids to be held open. Seek medical assistance.

Inhaled

Remove patient to fresh air. Allow patient to assume most comfortable position and keep warm. Recovery should be rapid after removal from exposure. Keep at rest until fully recovered. Seek medical advice if effects persist.

Swallowed

Seek immediate medical assistance. Give water or milk to drink. Do not induce vomiting.

Advice to Doctor

Treat symptomatically as for strong alkaline material.

First Aid facilities

None specified.

Toxicity data

No data is available for the compound product, the following data relates to the ingredients of Ramset Epoxy Patch Hardener.

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Phenol : TWA: 1ppm 4mg/m3 "skin"

Deta : TWA: 1ppm 4.2mg/m3 "skin"

A skin notation indicates that this substance will also be readily absorbed through the skin, which may be airborne material or direct contact. The TLV is obviously invalidated if such contact should occur, TLV is the time weighted average concentration of the work atmosphere over a normal 8 hour work day and a 40 hour work week. Nearly all workers may be repeatedly exposed to this level, day after day, without any adverse effects.

**VENTALATION:**

Use in a well ventilated area. Must be sufficient to prevent breathing of vapour. General factory or outdoor ventilation will normally be sufficient, if working in enclosed or poorly ventilated areas the use of mechanical ventilation may be required.

**PERSONAL PROTECTION:**Eyes

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

Hands & Feet

Nitrile gloves. Polyethylene gloves. Neoprene gloves. Rubber gloves. Safety footwear. PVC boots.

Respiratory

Provide adequate ventilation in warehouse or closed storage areas. If inhalation risk of over exposure exists, wear SAA approved organic-vapour respirator. In confined spaces where there is inadequate ventilation, wear full-face air supplied breathing apparatus. Avoid breathing dust when sanding. If inhalation risk exists, wear SAA approved dust respirator. Use wet sanding techniques to avoid generation dust.

Other

PVC apron. Overalls. Barrier cream. Eyewash unit. Skin cleansing cream. Ensure there is ready access to a safety shower. Polymerisation with considerable heat build up will occur if masses >0.5kg are mixed with epoxy resins in uncontrolled conditions. Always observe adequate standards of industrial hygiene.

**FLAMABILITY:**

Combustible

**ENVIROMENT:**

Avoid contaminating waterways.

**OTHER PRECAUTIONS:**

Polymerisation with considerable heat build up will occur if masses >0.5kg are mixed with epoxy resins in uncontrolled conditions. Always observe adequate standards of industrial hygiene.

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**7: SAFE HANDLING & STORAGE****STORAGE & TRANSPORT:**

Transport in original containers. Not to be loaded with foodstuffs. Store in cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs.

**PACKAGING & LABELLING:**

Packaging group III.

Label: Corrosive (8)

**SPILLS & DISPOSALS:**

Wear appropriate protective equipment. Contain spillage using absorbent (soil or sand, sawdust, vermiculite,) inert material. Prevent any contamination of drains or waterways. Scrape up and seal in properly labeled drums for disposal. Remove residue from contaminated areas with specific cleanup solution or use water and detergent. Observe local regulation when disposing of waste material.

Avoid all personal contact, including inhalation. Wear protective clothing when risk of over exposure occurs. Use in a well ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaced until atmosphere has been checked. Atmosphere should be checked regularly against established exposure levels to ensure safe working conditions are maintained. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. DO NOT eat, drink or smoke when handling material. Keep containers securely sealed when not in use. Avoid physical damage to container. Always wash hands with soap after handling. Work clothes should be laundered separately. Use good occupation work practices. Observe manufacturer's storing and handling recommendations.

**8: FLAMABILITY**

Upper Explosion Limit : 5.9 (% by volume) (est.)

Lower Explosion Limit : 1.1 (% by volume) (calc.)

May Decompose Explosively : Not available

Dust Explosion Limit : Not available:

Fire/Explosion hazard:

No unusual fire or explosion hazards. On burning will emit toxic fumes. Fire Fighters to wear self contained breathing apparatus if risk of exposure to products of decomposition. To extinguish fire involving the material use carbon dioxide, dry chemical foam. Use water jet to keep containers cool if near a fire. Hazardous decomposition products of polymeric materials.

Extinguishing Media:

Foam, Dry Chemical Powder, BCF (where regulation permit), Carbon Dioxide.

Water spray or fog (large fires only).

Other: Safe Handling

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Toxic fumes, carbon dioxide, carbon monoxide, soot and smoke, oxidative products of polymeric materials.

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