

# SAFETY DATA SHEET

Australian GHS Compliant

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

**Product name** CHEMSET™ REO502 PLUS **Synonyms** REO502P600 - PART NUMBER

1.2 Uses and uses advised against

**EPOXY ADHESIVE** Uses

Two component epoxy based adhesive in a combined cartridge that will deliver 2 parts resin to 1 part

hardener for mixing and application.

1.3 Details of the supplier of the product

RAMSETREID AU (A DIVISION OF ITW AUSTRALIA PTY LTD) Supplier name

**Address** 1 Ramset Drive, Chirnside Park, VIC, 3116, AUSTRALIA

1300 780 063 **Telephone** 1300 780 122 Fax

enquiry@ramset.com.au **Email** Website http://www.ramset.com.au

1.4 Emergency telephone numbers 1800 033 111 **Emergency** 

## 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards** 

Corrosive to Metals: Category 1

**Health Hazards** 

Acute Toxicity: Oral: Category 4 Skin Corrosion / Irritation: Category 1B Skin Sensitisation: Category 1

Serious Eye Damage / Eye Irritation: Category 1

**Environmental Hazards** 

Aquatic Toxicity (Chronic): Category 2

2.2 GHS Label elements

Signal word **DANGER** 

**Pictograms** 









#### **Hazard statements**

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

#### **Prevention statements**

P234 Keep only in original packaging.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

#### Response statements

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.
P321 Specific treatment is advised - see first aid instructions.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

### Storage statements

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

#### **Disposal statements**

P501 Dispose of contents/container in accordance with relevant regulations.

# 2.3 Other hazards

No information provided.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)	25068-38-6	500-033-5	<50%
1,3-CYCLOHEXANEDIMETHANAMINE	2579-20-6	219-941-5	<20%
FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL	9003-36-5	500-006-8	<20%
REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)	933999-84-9	618-939-5	<10%
PHENOL, STYRENATED	61788-44-1	262-975-0	<5%
M-PHENYLENEBIS(METHYLAMINE)	1477-55-0	216-032-5	<2%
SALICYLIC ACID	69-72-7	200-712-3	<2%
ADDITIVE(S)	-	-	Remainder

## 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.



**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains or waterways.

#### 5.2 Special hazards arising from the substance or mixture

Combustible. May evolve toxic gases (carbon/ nitrogen oxides and hydrocarbons) when heated to decomposition.

#### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### 5.4 Hazchem code

2X

2 Fine Water Spray.

X Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

### 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

# 6.2 Environmental precautions

Prevent product from entering drains and waterways.

# 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

#### 7.3 Specific end uses

No information provided.



# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

### **Exposure standards**

Ingredient	Reference		VA	STEL	
Ingredient	Reference	ppm	mg/m³	ppm	mg/m³
Formaldehyde	SWA [AUS]	1	1.2	2	2.5
m-Xylene-a,a'-diamine	SWA [AUS]		0.1 (Peak)		

# **Biological limits**

No biological limit values have been entered for this product.

# 8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction

ventilation is recommended.

PPE

**Eye / Face** Wear splash-proof goggles. **Hands** Wear Viton® or nitrile gloves.

**Body** When using large quantities or where heavy contamination is likely, wear coveralls.

Respiratory Where an inhalation risk exists, wear a Type A (organic vapour) / Organic vapour respirator. If cutting or

sanding with potential for dust generation, wear a Class P1 (particulate) / N95 respirator.





# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance GREY PASTE (PART A); BEIGE PASTE (PART B)

Odour CHARACTERISTIC ODOUR

Flammability COMBUSTIBLE
Flash point > 100°C

Boiling point > 35°C (PART A)
Melting point NOT AVAILABLE
Evaporation rate NOT AVAILABLE

pH NOT AVAILABLE
Vapour density NOT AVAILABLE

Relative density 1.4 to 1.5 (PART A); 1.7 to 1.8 (PART B)

Solubility (water) **INSOLUBLE NOT AVAILABLE** Vapour pressure **NOT AVAILABLE** Upper explosion limit **NOT AVAILABLE** Lower explosion limit **NOT AVAILABLE** Partition coefficient **NOT AVAILABLE** Autoignition temperature Decomposition temperature NOT AVAILABLE NOT AVAILABLE **Viscosity NOT AVAILABLE Explosive properties** Oxidising properties **NOT AVAILABLE Odour threshold NOT AVAILABLE** 

## 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

May be corrosive to metals.



#### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation is not expected to occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

#### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid) and alkalis (e.g. sodium hydroxide).

### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon/ nitrogen oxides and hydrocarbons) when heated to decomposition.

# 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

Acute toxicity Harmful if swallowed. Ingestion may result in burns of the mouth and throat, as well as a danger of

perforation of the oesophagus and the stomach.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)	> 15 g/kg (rat)	> 23 g/kg (rabbit)	
1,3-CYCLOHEXANEDIMETHANAMINE	> 300 - 2,000 mg/kg (rat)		
FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL	> 2 g/kg (rat)	> 400 mg/kg (rat)	
REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)	1681 to 3928 mg/kg bw (rat) 6 hours		
M-PHENYLENEBIS(METHYLAMINE)	930 mg/kg (rat)	2000 mg/kg (rabbit)	700 ppm/1 hour (rat)
SALICYLIC ACID	891 mg/kg (rat)	> 2000 mg/kg (rat)	> 900 mg/m³ (rat)

**Skin** Contact may result in irritation, redness, pain, rash, dermatitis and possible burns.

Eye Causes burns. Contact may result in irritation, lacrimation, pain, redness and possible burns.

Sensitisation May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser.

Mutagenicity
Not classified as a mutagen.

Carcinogenicity
Not classified as a carcinogen.

Reproductive
Not classified as a reproductive toxi

**Reproductive** Not classified as a reproductive toxin. **STOT - single** Over exposure may result in irritation

exposure

Over exposure may result in irritation of the nose and throat, coughing and ulceration.

STOT - repeated exposure

Long term exposure to epoxy resins may be harmful to the blood and hematopoietic systems (NZ CCID).

**Aspiration** This product does not present an aspiration hazard.

# 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

No information provided.

## 12.3 Bioaccumulative potential

No information provided.

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### 12.4 Mobility in soil

No information provided.

### 12.5 Other adverse effects

Avoid contamination of drains and waterways.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste disposal Mix components together to neutralise, wearing appropriate protective equipment - do not seal container until

reaction is complete. Dispose of the reaction product in accordance with advice from your State's

**Environmental Protection Authority** 

**Legislation** Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION

#### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE





	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	2735	2735	2735
14.2 Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N.O.S. (contains 1,3-cyclohexanedimethanamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (contains 1,3-cyclohexanedimethanamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (contains 1,3-cyclohexanedimethanamine)
14.3 Transport hazard class	8	8	8
14.4 Packing Group	II	II	II

# 14.5 Environmental hazards

Marine Pollutant.

### 14.6 Special precautions for user

 Hazchem code
 2X

 GTEPG
 8A1

 EmS
 F-A, S-B

Other information The environmentally hazardous substance mark is not required when transported in packages of less

than 5 kg/L (UN Model Regulations: Special Provision 375; IATA: Special Provision A197; IMDG:

Special Provision 969) or less than 500 kg/L by Australian Road and Rail.

## 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

**NEW ZEALAND: NZIoC (New Zealand Inventory of Chemicals)** All components are listed on the NZIoC inventory, or are exempt.

# 16. OTHER INFORMATION



#### **Additional information**

WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (e.g. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

EPOXY - PHENOXY RESINS AND POLYURETHANES: Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear a air-line respirator, full length chemically resistant coveralls and gloves. Further, if an individual is to enter an enclosed booth where a vapour or gas curing process is occurring, an air-line respirator is required. Once cured, these resins are considered non toxic.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

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ACGIH	American Conference of Governmental Industrial Hygienists
AUUIII	American Conference of Covernmental industrial rivalensis

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average



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#### Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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