

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

### Product name CHEMSET 101 PLUS

Synonyms C101C, C101J, ISKP - PRODUCT CODE(S) • CHEMSET 101 • POLYESTER RESIN KIT

### 1.2 Uses and uses advised against

Uses ADHESIVE • ANCHORING COMPOUND • ANCHORING SYSTEM • POLYESTER RESIN KIT

### 1.3 Details of the supplier of the product

Supplier name	RAMSETREID AU (A DIVISION OF ITW AUSTRALIA PTY LTD)		
Address	1 Ramset Drive, Chirnside Park, VIC, 3116, AUSTRALIA		
Telephone	1300 780 063		
Fax	1300 780 122		
Email	enquiry@ramset.com.au		
Website	http://www.ramset.com.au		

### 1.4 Emergency telephone numbers

**Emergency** 1800 033 111

# 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

### **Physical Hazards**

Not classified as a Physical Hazard

### **Health Hazards**

Skin Sensitisation: Category 1 Serious Eye Damage / Eye Irritation: Category 2A

### **Environmental Hazards**

Aquatic Toxicity (Chronic): Category 1

### 2.2 GHS Label elements

Signal word

## WARNING

Pictograms





### Hazard statements

H317	
H319	
H410	

May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.



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#### **Prevention statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eve protection/face protection.

#### **Response statements**

P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
P321	Specific treatment is advised - see first aid instructions.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
Storage statements	

None allocated.

#### **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
GLYCEROL (GLYCERINE)	56-81-5	200-289-5	30 to <60%
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	30 to <60%
BENZOYL PEROXIDE	94-36-0	202-327-6	10 to <30%
CALCIUM CARBONATE	471-34-1	207-439-9	10 to <30%
VINYLTOLUENE	25013-15-4	246-562-2	10 to <30%
ZINC STEARATE	557-05-1	209-151-9	<10%

**Ingredient Notes** Product is a combined capsule, ingredients listed above are a breakdown of the entire product. Product combines at a ratio 10:1 (Part A: Part B). Ingredients are separate within the capsule as described below: Part A: Quartz, calcium carbonate and vinyltoluene

Part B: Glycerol, dibenzoyl peroxide and zinc distearate.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

Еуе	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. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). 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. Ingestion is considered unlikely due to product form.	
First aid facilities	Eye wash facilities and safety shower are recommended.	

#### 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



### PRODUCT NAME CHEMSET 101 PLUS

### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways. Do NOT use water jet.

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

Non flammable. May evolve toxic gases (carbon oxides, styrene, hydrocarbons) when heated to decomposition. Styrene may polymerise readily at elevated temperatures and may violently rupture sealed containers.

### 5.3 Advice for firefighters

Non flammable. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon oxides, styrene) may be evolved when heated. 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 nearby storage areas.

### 5.4 Hazchem code

- 2Z
- 2 Fine Water Spray.
- Z Wear full fire kit 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. Ventilate area where possible.

#### 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. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation and fire protection systems.

#### 7.3 Specific end uses

No information provided.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Benzoyl peroxide	SWA [AUS]		5		
Calcium carbonate (Limestone, Marble, Whiting)	SWA [AUS]		10		
Glycerin mist (a)	SWA [AUS]		10		
Quartz (respirable dust)	SWA [AUS]		0.05		
Quartz (respirable dust) (Precautionary advice)	WorkSafe VIC		0.02		
Stearates	SWA [AUS]		10		
Stearates (inhalable)	SWA [Proposed]		10		
Stearates (respirable)	SWA [Proposed]		3		
Vinyl toluene	SWA [AUS]	50	242	100	483
Vinyl toluene	SWA [Proposed]	20	97	40	193

### **Biological limits**

No biological limit values have been entered for this product.

### 8.2 Exposure controls

Engineering controls No information provided.

### PPE

Eye / Face	Wear splash-proof goggles.
Hands	Wear barrier gloves.
Body	With prolonged use, wear coveralls.
Respiratory	Where an inhalation risk exists, wear a Type A (Organic vapour) respirator.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	COLOURED PASTE (CARTRIDGE ENCLOSED)
Odour	CHARACTERISTIC ODOUR
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
рН	NOT AVAILABLE
Vapour density	NOT AVAILABLE
Relative density	NOT AVAILABLE
Solubility (water)	NOT AVAILABLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE



## **10. STABILITY AND REACTIVITY**

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Styrene may polymerise with violent rupture/explosion.

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

Incompatible with combustible materials, oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), reducing agents (e.g. sulphites), amines, halogens, sunlight, ferrous salts, heavy metals, heat and ignition sources. May polymerise with violent rupture/explosion.

#### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon and styrene oxides, hydrocarbons) when heated to decomposition.

### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met. Ingestion of large quantities may result in nausea, vomiting, abdominal pain and diarrhoea.

### Information available for the ingredients:

Ingredient		Oral LD50	Dermal LD50	Inhalation LC50	
GLYCEROL (GLYCER	INE)	4090 mg/kg (mouse)			
BENZOYL PEROXIDE		5700 mg/kg (mouse)	> 1000 mg/kg (mammal)		
CALCIUM CARBONATE		> 2000 mg/kg (rat)	> 2000 mg/kg (rat)	> 3.0 mg/L	
Skin	Due to product encapsulati	on, the potential for skin	contact with contents is re	duced. If the container is	

	damaged, contact may result in irritation, redness, pain, rash, dermatitis and possible burns. Effects may be delayed.
Eye	Due to product encapsulation, the potential for eye contact with contents is reduced. If the container is damaged, direct contact may result in irritation, lacrimation and burns.

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

Mutagenicity Not classified as a mutagen.

**Carcinogenicity** Due to the product encapsulation, exposure to contents is not anticipated with normal use. Crystalline silica is classified as carcinogenic to humans (IARC Group 1). However, there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Due to the product form, adverse health effects from this component are not anticipated unless sanding the cured product.

- **Reproductive** Insufficient data available to classify as a reproductive toxin.
- STOT single<br/>exposureOver exposure may result in irritation of the nose and throat, coughing, nausea, vomiting, dizziness and<br/>breathing difficulties. High level exposure may result in respiratory paralysis and unconsciousness.
- **STOT repeated**Exposure
  Due to product encapsulation, the potential for exposure to the contents is reduced. Adverse health effects, usually associated with long term exposure to high crystalline silica dust levels are not anticipated due to the product form. However, the product may present a hazard if respirable quartz dust is generated (ie. sanding dried product). Repeated exposure to dust may cause lung fibrosis (silicosis).
- Aspiration Not classified as causing aspiration.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

No information provided.



### 12.3 Bioaccumulative potential

No information provided.

### 12.4 Mobility in soil

No information provided.

### 12.5 Other adverse effects

Keep out of waterways.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Waste disposal** For small quantities, mix with other component/s, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required). Ensure protective equipment is worn when mixing. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

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	3077	3077	3077
14.2 Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains dibenzoyl peroxide)
14.3 Transport hazard class	9	9	9
14.4 Packing Group	III	III	II

### 14.5 Environmental hazards

Marine Pollutant.

### 14.6 Special precautions for user

Hazchem code	2Z
GTEPG	9C1
EmS	F-A, S-F
Other information	The environme than 5 kg/L (U

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

Inventory listings	AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) All components are listed on AIIC, or are exempt.		
Classifications	Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).		
Poison schedule	Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).		



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## **16. OTHER INFORMATION**

Additional information	ORGANIC PEROXIDES: Fires involving organic peroxides can be intense and move rapidly due to product rapid decomposition with release of oxygen and may involve explosions. If spilt on combustible materials it may spontaneously ignite. A diluent is often added to organic peroxides to reduce shock sensitivity.			
	<ul> <li>IARC GROUP 2B - POSSIBLE HUMAN CARCINOGEN. This product contains an ingredient which has demonstrated sufficient evidence to have been classified by the International Agency for Research into Cancer (IARC) as possibly carcinogenic to humans and whose use should be strictly monitored and controlled.</li> <li>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.</li> <li>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.</li> </ul>			
Abbreviations	ACGIH CAS # CNS EC No. EMS GHS GTEPG IARC LC50 LD50 mg/m <sup>3</sup> OEL pH ppm STEL STOT-RE STOT-RE STOT-SE SUSMP SWA TLV TWA	American Conference of Governmental Industrial Hygienists Chemical Abstract Service number - used to uniquely identify chemical compounds Central Nervous System EC No - European Community Number Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods) Globally Harmonized System Group Text Emergency Procedure Guide International Agency for Research on Cancer Lethal Concentration, 50% / Median Lethal Concentration Lethal Dose, 50% / Median Lethal Dose Milligrams per Cubic Metre Occupational Exposure Limit relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). Parts Per Million Short-Term Exposure Limit Specific target organ toxicity (repeated exposure) Specific target organ toxicity (single exposure) Standard for the Uniform Scheduling of Medicines and Poisons Safe Work Australia Threshold Limit Value Time Weighted Average		
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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ChemAlert.
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### PRODUCT NAME CHEMSET 101 PLUS

Prepared by

Risk Management Technologies 5 Ventnor Ave, West Perth Western Australia 6005 Phone: +61 8 9322 1711 Fax: +61 8 9322 1794 Email: info@rmt.com.au Web: www.rmtglobal.com

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