

# SAFETY DATA SHEET

**New Zealand HSNO Compliant** 

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name RAMSET CHEMSET MAXIMA CAPSULES M20 M24 (NZ)

Synonyms CHEM2024 - MANUFACTURER'S CODE ● CHEMSET MAXIMA CAPSULES M20 M24 (FORMERLY) ●

CHEMSET MAXIMA SPIN CAPSULES (FORMERLY) • CHEMSET SPIN CAPSULES (FORMERLY) •

POLYESTER RESIN KIT • RAMSET CHEMSET SPIN CAPSULES • SPIN CAPSULES

1.2 Uses and uses advised against

Uses ANCHORING SYSTEM 

◆ FASTENING AGENT

1.3 Details of the supplier of the product

Supplier name RAMSETREID NZ (A DIVISION OF ITW NEW ZEALAND)

Address 23-29 Poland Road, Glenfield, Auckland, 0627, NEW ZEALAND

 Telephone
 0800 88 22 12

 Email
 info@ramset.co.nz

 Website
 http://www.ramset.co.nz

1.4 Emergency telephone numbers
Emergency 0800 734 607

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

HAZARDOUS ACCORDING TO NZ ENVIRONMENTAL PROTECTION AUTHORITY CRITERIA

**Physical Hazards** 

Flammable Liquids: Category 3

#### **Health Hazards**

Acute Toxicity: Inhalation: Category 4 Acute Toxicity: Oral: Category 5 Carcinogenicity: Category 2 Germ Cell Mutagenicity: Category 2

Serious Eye Damage / Eye Irritation: Category 2A

Skin Corrosion/Irritation: Category 2 Skin Sensitisation: Category 1

Specific Target Organ Toxicity (Repeated Exposure): Category 1

Toxic to Reproduction: Category 2

# **Environmental Hazards**

Aquatic Toxicity (Acute): Category 3

## 2.2 GHS Label elements

Signal word DANGER

**Pictograms** 







Page 1 of 7



SDS Date: 28 Feb 2024

Revision No: 4

## **Hazard statements**

H226 Flammable liquid and vapour.
H303 May be harmful if swallowed.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H402 Harmful to aquatic life.

#### **Prevention statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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. P271 Use only outdoors or in a well-ventilated area.

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.

#### Response statements

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.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P321 Specific treatment is advised - see first aid instructions.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage statements

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**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
STYRENE	100-42-5	202-851-5	<12.5%
BENZOYL PEROXIDE	94-36-0	202-327-6	1 to 10%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	<77%

## 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. To protect rescuer, use a Type A (Organic vapour) respirator or

Page 2 of 7

an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

ChemAlert.

Revision No: 4

**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 the National Poisons Centre on 0800 764 766 (0800 POISON) or +643 479 7248 or a

doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.

#### 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 or foam. Prevent contamination of drains and waterways.

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

Flammable - potentially explosive vapour. May evolve toxic gases (carbon oxides, benzene, phenyls, styrene) when heated to decomposition. Styrene will polymerise readily at elevated temperatures and may violently rupture sealed containers. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, etc when handling. May evolve nitrogen oxides 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

•2Y

- •2 Alcohol Resistant Foam is the preferred firefighting medium but, if it is not available, fine water spray can be used.
- Y Risk of violent reaction or explosion. 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.

### 7.3 Specific end uses

No information provided.



SDS Date: 28 Feb 2024 Revision No: 4

Page 3 of 7

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

#### **Exposure standards**

Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Benzoyl peroxide	WES [NZ]		5		
Styrene	WES [NZ]	50	213	100	426

# **Biological limits**

Ingredient	Determinant	Sampling Time	BEI
STYRENE	Mandelic acid plus phenylglyoxylic acid in urine	End of shift	150 mg/g creatinine
	Styrene in urine	End of shift	20 μg/L

Reference: ACGIH Biological Exposure Indices

#### 8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. If capsules/ cartridges are damaged (bulk), mechanical

explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and

flash back. Maintain vapour levels below the recommended exposure standard.

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 LIQUID (ENCLOSED IN GLASS VIALS)

Odour STYRENE ODOUR Flammability FLAMMABLE

Flash point 31°C (Polyester resin)
Boiling point 145°C (Approximately)
Melting point NOT AVAILABLE
Evaporation rate NOT AVAILABLE
pH NOT AVAILABLE
Vapour density NOT AVAILABLE

Relative density 1.60

Solubility (water) INSOLUBLE
Vapour pressure NOT AVAILABLE

Upper explosion limit 8.0 % Lower explosion limit 1.1 %

Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidising properties
Odour threshold
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE

9.2 Other information

**VOC** 122.76 g/L



SDS Date: 28 Feb 2024 Revision No: 4

# 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), reducing agents (e.g. sulphites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), metals.

#### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon oxides, benzene, phenyls, styrene) when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity Harmful if inhaled. May be harmful if swallowed.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
STYRENE	> 2000 mg/kg (rat)	> 2000 mg/kg (rat) (OECD 402)	11.8 mg/L/4 hours (rat) (vapour)
BENZOYL PEROXIDE	5700 ma/ka (mouse)	> 1000 mg/kg (mammal)	

Skin Due to product encapsulation, the potential for skin contact with contents is reduced. 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** Suspected of causing genetic defects.

Carcinogenicity Due to the product encapsulation, exposure to contents is not anticipated with normal use. Styrene is

classified as probably carcinogenic to humans (IARC Group 2A).

**Reproductive** Styrene is suspected of damaging the unborn child.

STOT - single Over exposure breat

Over exposure may result in irritation of the nose and throat, coughing, nausea, vomiting, dizziness and

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. May cause damage to

organs (nasal epithelial and ear) through prolonged or repeated exposure to styrene if inhaled.

**Aspiration** Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema.

# 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

Harmful to aquatic life.

## 12.2 Persistence and degradability

No information provided.

# 12.3 Bioaccumulative potential

No information provided.

# 12.4 Mobility in soil

No information provided.

ChemAlert.

SDS Date: 28 Feb 2024 Revision No: 4

Page 5 of 7

#### 12.5 Other adverse effects

If released to the atmosphere, styrene will react rapidly with both hydroxyl radicals and ozone with a combined calculated half-life of about 5 hours. If released to environmental bodies of water, styrene will volatilise relatively rapidly and biodegrade, but is not expected to hydrolyse. If released to soil it will biodegrade and have low soil mobility.

## 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 the Environmental

Protection Authority.

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

## 14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005; NZS 5433:2012, UN, IMDG OR IATA



	LAND TRANSPORT (NZS 5433)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	3269	3269	3269
14.2 Proper Shipping Name	POLYESTER RESIN KIT, liquid base material	POLYESTER RESIN KIT, liquid base material	POLYESTER RESIN KIT, liquid base material
14.3 Transport hazard class	3	3	3
14.4 Packing Group	III	III	III

### 14.5 Environmental hazards

Not a Marine Pollutant.

## 14.6 Special precautions for user

## 15. REGULATORY INFORMATION

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

Approval code HSR002662 (2020)

Group standard Surface Coatings and Colourants (Flammable) Group Standard 2020
Inventory listings AUSTRALIA: AIIC (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** 

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.

ChemAlert.

SDS Date: 28 Feb 2024 Revision No: 4

Page 6 of 7

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.

#### 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.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

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

CCID Chemical Classification and Information Database (HSNO)

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

EPA Environmental Protection Authority [New Zealand]

GHS Globally Harmonized System

HSNO Hazardous Substances and New Organisms
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)

TLV Threshold Limit Value
TWA 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.

#### 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

[ End of SDS ]

Page 7 of 7



SDS Date: 28 Feb 2024

Revision No: 4