



# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name MAK-MP

Synonyms MAK INDUSTRIAL WATER SOLUTIONS MAK MP ● SODIUM METABISULPHITE ● SODIUM

**PYROSULPHITE** 

1.2 Uses and uses advised against

Uses ANALYTICAL REAGENT 

◆ ANTISEPTIC 

◆ STERILISER

1.3 Details of the supplier of the product

Supplier name MAK INDUSTRIAL WATER SOLUTIONS PTY LTD

Address 36 Beringarra Ave, Malaga, Western Australia, 6090, AUSTRALIA

**Telephone** +61 8 9249 8007 **Fax** +61 8 9249 8004

Email service.wa@makwater.com.au

Website <a href="http://makwater.com.au">http://makwater.com.au</a>

1.4 Emergency telephone numbers

**Emergency** +61 8 9249 8007

# 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**

Acute Toxicity: Oral: Category 4

Serious Eye Damage / Eye Irritation: Category 1

Contact with acids liberates toxic gas.

# **Environmental Hazards**

Not classified as an Environmental Hazard

# 2.2 GHS Label elements

Signal word DANGER

**Pictograms** 





### **Hazard statements**

AUH031 Contact with acids liberates toxic gas.

H302 Harmful if swallowed. H318 Causes serious eye damage.

**Prevention statements** 

P264 Wash thoroughly after handling.

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

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

ChemAlert.

SDS Date: 23 Sep 2021 Revision No: 3.1

#### PRODUCT NAME MAK-MP

Response statements

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.

P330 Rinse mouth.

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
SODIUM METABISULPHITE	7681-57-4	231-673-0	100%

# 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

Use an extinguishing agent suitable for the surrounding fire.

# 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases (sodium and sulphur 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

None allocated.

### 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.

ChemAlert.

SDS Date: 23 Sep 2021 Revision No: 3.1

Page 2 of 7

#### PRODUCT NAME MAK-MP

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Vacuum or sweep up material and place in designated, labelled waste containers for disposal. Avoid generating dust. Toxic sulphur dioxide fumes may be released in contact with water.

## 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 and foodstuffs. Ensure containers are adequately labelled and tightly closed 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	TWA		STEL	
ingredient	Kelefelice	ppm	mg/m³	ppm	mg/m³
Sodium metabisulphite	SWA [AUS]		5		

# **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** 

Wear safety glasses and dust-proof goggles. Eye / Face

Hands Wear PVC or rubber gloves.

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

Where an inhalation risk exists, wear a Class P1 (Particulate) respirator. At high dust levels, wear a Respiratory

Full-face Class P3 (Particulate) respirator.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

WHITE CRYSTALLINE SOLID **Appearance** SULPHUR DIOXIDE ODOUR Odour

**Flammability** NON FLAMMABLE NOT RELEVANT Flash point **NOT AVAILABLE Boiling point NOT AVAILABLE Melting point NOT AVAILABLE Evaporation rate** 

> SDS Date: 23 Sep 2021 Page 3 of 7 Revision No: 3.1

#### PRODUCT NAME MAK-MP

9.1 Information on basic physical and chemical properties

**pH** 4.3

Vapour density NOT AVAILABLE

Relative density 1.48 Solubility (water) 540 g/L

Vapour pressure
Upper explosion limit
Lower explosion limit
Partition coefficient
Autoignition temperature
NOT AVAILABLE
NOT RELEVANT
NOT AVAILABLE

**Decomposition temperature** 150°C

Viscosity

Explosive properties

Oxidising properties

Odour threshold

NOT AVAILABLE

NOT AVAILABLE

NOT AVAILABLE

# 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Contact with acids and water may evolve toxic sulphur dioxide gas.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization will not 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) and acids (e.g. nitric acid). Contact with acids may form toxic sulphur dioxide gas.

# 10.6 Hazardous decomposition products

May evolve toxic gases (sodium and sulphur oxides) when heated to decomposition.

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity Harmful if swallowed.

### Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
SODIUM METABISULPHITE	1540 mg/kg (rat)	> 2000 mg/kg (rat)	> 5.5 mg/l/4hrs (rat)

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

Eye Irritating to the eyes. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis and possible

burns.

Sensitisation Some individuals are hypersensitive to sulphites and may experience adverse reactions following exposure.

Individuals known to be hypersensitive or with existing respiratory problems (eg asthma) are advised to avoid

exposure.

MutagenicityNot classified as a mutagen.CarcinogenicityNot classified as a carcinogen.ReproductiveNot classified as a reproductive toxin.

STOT - single

Over exposure may result in irritation of the nose and throat, coughing, nausea, and breathing difficulties.

exposure

**STOT - repeated** Not classified as causing organ damage from repeated exposure.

exposure

**Aspiration** Not classified as causing aspiration.



SDS Date: 23 Sep 2021 Revision No: 3.1

# 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Not expected to be dangerous to the aquatic environment.

### 12.2 Persistence and degradability

Limited information was available at the time of this review.

### 12.3 Bioaccumulative potential

Not expected to bioaccumulate.

### 12.4 Mobility in soil

Limited information was available at the time of this review.

#### 12.5 Other adverse effects

No information provided.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal Cover spill with soda ash or sodium bicarbonate. Mix and spray with water, may be effervescent. Wait until

reaction is complete, scoop into a large beaker and cautiously add equal volume of sodium hypochlorite (reaction may be vigorous). Add more water, stir and allow to stand (~1hr). Dilute and neutralise. Absorb with sand/similar dispose of to an approved landfill site, or alternatively (for small amounts) flush to sewer with

large excess of water.

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

# 14. TRANSPORT INFORMATION

### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

### 14.5 Environmental hazards

No information provided.

# 14.6 Special precautions for user

Hazchem code None allocated.

# 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.

# 16. OTHER INFORMATION

**Additional information** 



SDS Date: 23 Sep 2021 Revision No: 3.1

#### PRODUCT NAME MAK-MP

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance, ENGINEERING CONTROLS are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

### 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

**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 International Agency for Research on Cancer **IARC** 

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

Milligrams per Cubic Metre mg/m³ OEL Occupational Exposure Limit

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

alkaline).

ppm Parts Per Million

Short-Term Exposure Limit STEL

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

Page 6 of 7

Standard for the Uniform Scheduling of Medicines and Poisons SUSMP

Safe Work Australia **SWA** 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.



SDS Date: 23 Sep 2021

Revision No: 3.1

# PRODUCT NAME MAK-MP

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: 23 Sep 2021

Revision No: 3.1