



# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name MAK CCSIH2
Synonyms CCSIH2

1.2 Uses and uses advised against

Uses COOLING WATER ADDITIVE ● CORROSION INHIBITOR

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**

Skin Corrosion/Irritation: Category 2

Serious Eye Damage / Eye Irritation: Category 2A

# **Environmental Hazards**

Not classified as an Environmental Hazard

# 2.2 GHS Label elements

Signal word WARNING

**Pictograms** 



**Hazard statements** 

H315 Causes skin irritation. H319 Causes serious eye irritation.

**Prevention statements** 

P264 Wash thoroughly after handling.

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

ChemAlert.

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### 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.
P332 + P337 + P313 If skin or eye irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

### Storage statements

None allocated.

### Disposal statements

None allocated.

#### 2.3 Other hazards

No information provided.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
POTASSIUM HYDROXIDE	1310-58-3	215-181-3	1 to 10%
WATER	7732-18-5	231-791-2	>60%
AZOLE(S)	-	-	1 to 10%
ORGANOPHOSPHONATE(S)	-	-	1 to 10%
ZINC SALT(S)	-	-	1 to 10%

# 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.

First aid facilities None allocated.

### 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 if strongly heated.

### 5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. 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.

### 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.

### 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. Large storage areas should have appropriate ventilation systems. Store between 0°C and 30°C.

## 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

## **Exposure standards**

Ingredient	Reference	TWA		STEL	
ingredient		ppm	mg/m³	ppm	mg/m³
Potassium hydroxide	SWA [AUS]		2 (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. Maintain vapour levels below the recommended exposure standard.

PPE

**Eye / Face** Wear splash-proof goggles. **Hands** Wear PVC or rubber gloves.

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

**Respiratory** Not required under normal conditions of use.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance CLEAR PALE YELLOW TO AMBER COLOURED LIQUID
Odour SLIGHT CHEMICAL ODOUR



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9.1 Information on basic physical and chemical properties

Flammability NON FLAMMABLE
Flash point NOT RELEVANT
Boiling point 100°C (Approximately)

Melting point < 0°C

**Evaporation rate** AS FOR WATER

**pH** 7.0 to 8.0

Vapour density NOT AVAILABLE

Relative density 1.1 to 1.2 Solubility (water) SOLUBLE

**NOT AVAILABLE** Vapour pressure **NOT RELEVANT** Upper explosion limit **NOT RELEVANT** Lower explosion limit **NOT AVAILABLE** Partition coefficient **NOT AVAILABLE** Autoignition temperature **Decomposition temperature** NOT AVAILABLE **Viscosity** NOT AVAILABLE **Explosive properties** NOT AVAILABLE Oxidising properties NOT AVAILABLE

NOT AVAILABLE

9.2 Other information

**Odour threshold** 

% Volatiles > 60 % (Water)

# 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

Polymerization 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) and acids (e.g. nitric acid).

### 10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

### Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
POTASSIUM HYDROXIDE	273 to 1230 mg/kg (rat)		

SkinContact may result in irritation, redness, pain and rash.EyeContact may result in irritation, lacrimation, pain and redness.SensitisationNot classified as causing skin or respiratory sensitisation.

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

STOT - single Over exposure may result in mucous membrane irritation of the respiratory tract, coughing, nausea,

**exposure** dizziness and headache.

Not classified as causing organ damage from repeated exposure.



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STOT - repeated exposure

**Aspiration** Not classified as causing aspiration.

## 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

No information provided.

## 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

No information provided.

# 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

Waste disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For

large quantities, contact the manufacturer/supplier for additional information. 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

# 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 A poison schedule number has not been allocated to this product using the criteria in the 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: AIIC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

ChemAlert.

## 16. OTHER INFORMATION

### **Additional information**

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 quide 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.

**ACGIH** American Conference of Governmental Industrial Hygienists **Abbreviations** 

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

**CNS** Central Nervous System

EC No - European Community Number EC No.

Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous **EMS** 

Goods)

Globally Harmonized System GHS

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

Lethal Concentration, 50% / Median Lethal Concentration LC50

Lethal Dose, 50% / Median Lethal Dose LD50

Milligrams per Cubic Metre mg/m³ Occupational Exposure Limit OEL

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

alkaline).

Parts Per Million ppm

Short-Term Exposure Limit **STEL** 

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

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**SUSMP** Standard for the Uniform Scheduling of Medicines and Poisons

**SWA** Safe Work Australia TI V 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.

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