

Date of preparation: 12 February 2023 Previous date: 23 May 2022



# SAFETY DATA SHEET

## **OPTIGUARD MCP5070**

#### 1. Identification

**Product identifier OPTIGUARD MCP5070** 

Other means of identification None.

Recommended use of the chemical and restrictions on use

Water based internal boiler treatment chemical. Recommended use

Restrictions on use Not available.

#### Company/undertaking identification

**VEOLIA WATER TECHNOLOGIES & SOLUTIONS** 

**AUSTRALIA PTY LTD** 

103 Raubers Road, Northgate, QLD 4013 Australia C/o Buddle Findlay, Level 18, Hsbc Tower, 188 Quay

Street, Auckland, 1010, New Zealand

Tel: 1800 064 140 (AUS) 0800 945635 (NZ)

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#### **Emergency telephone**

+61-290372994 (Aust) +64-98010034 (NZ)

### 2. Hazard(s) identification

#### Classification of the hazardous chemical

**Physical hazards** Corrosive to metals Category 1 Skin corrosion/irritation Category 1B **Health hazards** Serious eye damage/eye irritation Category 1

**Environmental hazards** Not classified.

### Label elements, including precautionary statements

Hazard symbol(s)



Corrosion

Signal word Danger

Hazard statement(s) May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye

damage.

Precautionary statement(s)

Prevention Keep only in original container. Do not breathe mist/vapors. Wash thoroughly after handling.

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off Response

immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing

before reuse. Absorb spillage to prevent material damage.

**Storage** Store locked up. Store in corrosive resistant container with a resistant inner liner.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information

Other hazards which do not

result in classification

None known.

None



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## 3. Composition/information on ingredients

**Mixtures** 

Identity of chemical ingredients CAS number and other Concentration of unique identifiers ingredients 1- <5 Sodium hydroxide 1310-73-2

#### 4. First-aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Personal protection for first-aid

responders

Ingestion

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Symptoms caused by exposure Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

### 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for fire fighters

Move containers from fire area if you can do so without risk.

Fire fighting

equipment/instructions

Hazchem code None.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing

For emergency responders Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be

advised if significant spillages cannot be contained. Use personal protection recommended in

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 8 of the SDS.

Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 

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Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components Type Value

Sodium hydroxide (CAS Ceiling 2 mg/m3

1310-73-2)

**US. ACGIH Threshold Limit Values** 

 Components
 Type
 Value

 Sodium hydroxide (CAS
 Ceiling
 2 mg/m3

1310-73-2)

UK. EH40 Workplace Exposure Limits (WELs)
Components Type Value

Sodium hydroxide (CAS STEL 2 mg/m3

1310-73-2)

Biological limit values

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency

shower must be available when handling this product.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. **Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance Liquid
Physical state Liquid.
Form Not available.

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## **OPTIGUARD MCP5070**

ColorColorlessOdorSlight

Odor threshold Not available.

pH (concentrated product) 13.7 Neat

Melting point/freezing point -14 °C

Initial boiling point and boiling 104 °C

range

Flash point Not Applicable

Evaporation rate Slower than Ether

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 18 mmHg

Vapor pressure temp. 21 °C

Vapor density < 1

Relative density temperature 21 °C

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity11 mPa.sViscosity temperature21 °COther physical and chemical parameters

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Pour point -11 °C

VOC 0 % ESTIMATED

# 10. Stability and reactivity

**Reactivity** May be corrosive to metals.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materialsStrong acids. Strong oxidizing agents. Metals.Hazardous decompositionNo hazardous decomposition products are known.

products

# 11. Toxicological information

#### Information on possible routes of exposure

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

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Symptoms related to exposure

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Acute toxicity** 

Product	Species	Test Results	
OPTIGUARD MCP5070			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)	
Inhalation			
LD50	Rat	> 5 mg/l, 4 Hours (Calculated according to GHS additivity formula)	
Oral			
LD50	Rat	> 5000 mg/kg (Calculated according to GHS additivity formula)	
Components	Species	Test Results	
Sodium hydroxide (CAS 1310-73	3-2)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	1350 mg/kg	
Oral			
LD50	Rabbit	> 500 mg/kg	

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not available. This product is not expected to cause reproductive or developmental effects.

Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not an aspiration hazard.

**Chronic effects** 

Prolonged inhalation may be harmful.

### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results	
Aquatic				
Crustacea	LC50	Daphnia magna	870 mg/L, 48 hour (Estimated)	
	NOEL	Daphnia magna	560 mg/L, 48 hour (Estimated)	
Fish	LC50	Fathead Minnow	2710 mg/L, 96 hour (Estimated)	
	NOEL	Fathead Minnow	790 mg/L, 96 hour (Estimated)	
Devoiatores and degradability	No data i	No data is available on the degradability of any ingradients in the mixture		

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

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## **OPTIGUARD MCP5070**

COD (mgO2/g)
 BOD 5 (mgO2/g)
 95 (calculated data)
 No information available.

BOD 28 (mgO2/g) Not available.
TOC (mg C/g) 25 (calculated data)

Bioaccumulative potential

Mobility in soil No data available for this product.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

**ADG** 

UN number 1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es)

Class 8
Subsidiary risk Packing group ||

**Environmental hazards** Not available.

Hazchem code 21

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number 1824

UN proper shipping name Sodium hydroxide solution

Transport hazard class(es)

Class 8
Subsidiary risk Packing group II
Environmental hazards No.
ERG Code 154

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number 1824

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Transport hazard class(es)

Class 8
Subsidiary risk Packing group II
Environmental hazards

Marine pollutant No. F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RQ(Sodium hydroxide, Hydroquinone)

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

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**ADG** 



IATA; IMDG



# 15. Regulatory information

Safety, health and environmental regulations

**National regulations** 

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals. This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (May 2018).

Group Standard - Corrosion Inhibitors - Corrosive HSR002547

#### Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

### Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix E

Sodium hydroxide (CAS 1310-73-2)

## Australia Medicines & Poisons Appendix F

Sodium hydroxide (CAS 1310-73-2)

### Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

# Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

### Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

# **Australia Medicines & Poisons Schedule 10**

Sodium hydroxide (CAS 1310-73-2)

#### Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

## **Australia Medicines & Poisons Schedule 3**

Poisons schedule number not allocated.



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#### Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 5

Sodium hydroxide (CAS 1310-73-2)

#### Australia Medicines & Poisons Schedule 6

Sodium hydroxide (CAS 1310-73-2)

#### Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

### Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

### High Volume Industrial Chemicals (HVIC)

Sodium hydroxide (CAS 1310-73-2)

> 1000000 TONNES See the regulation for additional information.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed

#### National Pollutant Inventory (NPI) substance reporting list

Not listed.

#### **Prohibited Carcinogenic Substances**

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

### **Restricted Carcinogenic Substances**

Not regulated.

#### International regulations

# **Stockholm Convention**

Not applicable.

### **Rotterdam Convention**

Not applicable.

## **Kyoto protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes



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Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NSF Registered and/or meets

Registration No. - 141184

**USDA** (according to 1998 guidelines):

Category Code(s): G5 Cooling and retort water treatment products

G6 Boiler treatment products, steam line products - food contact

16. Other information

Issue date 11-February-2021 **Revision date** 12/02/2023

Key abbreviations or acronyms

used

AICIS: Australian Inventory of Industrial Chemicals.

References: No data available

The information provided in this Safety Data Sheet is correct to the best of our knowledge, **Disclaimer** 

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Product and Company Identification: Product Registration Numbers **Revision information** 

> Physical and chemical properties: Appearance Physical and chemical properties: Form

Transport Information: Material Transportation Information

Other information: Disclaimer

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