



# SAFETY DATA SHEET

## **FLOGARD MS6209**

#### 1. Identification

**Product identifier FLOGARD MS6209** 

Other means of identification None

Recommended use of the chemical and restrictions on use Recommended use Water-based corrosion inhibitor

Restrictions on use Not available.

#### Company/undertaking identification

**VEOLIA WATER TECHNOLOGIES & SOLUTIONS** 

**AUSTRALIA PTY LTD** 

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## 2. Hazard(s) identification

### Classification of the hazardous chemical

**Physical hazards** Corrosive to metals Category 1 Acute toxicity, oral Category 4 **Health hazards** Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

### Label elements, including precautionary statements

Hazard symbol(s)



Corrosion **Exclamation Environment** 

Signal word Warning

May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye Hazard statement(s)

irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention Keep only in original container. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Avoid release to the environment. Wear eye protection/face protection. Wear

Category 2

protective gloves.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF Response

ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Absorb spillage to prevent material damage.

Collect spillage.







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**Storage** 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.

### 3. Composition/information on ingredients

#### Mixtures

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Zinc bis(dihydrogen phosphate)	13598-37-3	30- <60
Phosphoric Acid	7664-38-2	10- <30

### 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** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

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

Get medical advice/attention if you feel unwell.

Personal protection for first-aid

responders

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

protect themselves. Show this safety data sheet to the doctor in attendance.

Symptoms caused by exposure Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim warm. 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

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

Fire fighting

equipment/instructions

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

Hazchem code

**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

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

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

Section 8 of the SDS.

Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.





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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 taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

Components	Type	idards for Airborne Contaminants, Appendix A) Value
Phosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3
US. ACGIH Threshold Limit Value	ues	
Components	Туре	Value
Phosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3
UK. EH40 Workplace Exposure	Limits (WELs)	
Components	Type	Value
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

**Biological limit values** 

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

Appropriate engineering controls

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. Provide eyewash station and safety shower.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

**Hand protection** For prolonged or repeated skin contact use suitable protective gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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

Hygiene measures Keep away from food and drink. 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.

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## **FLOGARD MS6209**

### 9. Physical and chemical properties

Appearance Liquid
Physical state Liquid.
Form Liquid.

Color Colorless to yellow

Odor Slight

Odor threshold Not available.

pH (concentrated product) < 1 Neat

Melting point/freezing point < -34 °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 15 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.Viscosity50 mPa.sViscosity temperature21 °C

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

pH in aqueous solution 2.2 (5% Solution)

Pour point < -34 °C

Other physical and chemical parameters

VOC 0 % CALCULATED

### 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 avoidContact with incompatible materials.Incompatible materialsStrong oxidizing agents. Metals.Hazardous decompositionOxides of phosphorus evolved in fire.

products

## 11. Toxicological information

### Information on possible routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

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**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Harmful if swallowed.

Symptoms related to exposure Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

Acute toxicity Harmful if swallowed.

Product Species Test Results

FLOGARD MS6209

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg (Calculated according to

GHS additivity formula)

Oral LD50

Rat 1025 mg/kg (Calculated according to GHS

additivity formula)

Components Species Test Results

Phosphoric Acid (CAS 7664-38-2)

**Acute** 

Dermal

LD50 Rabbit 2740 mg/kg

Oral

LD50 Rat 300 mg/kg

Zinc bis(dihydrogen phosphate) (CAS 13598-37-3)

**Acute** 

**Dermal** 

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat 1260 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

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.

Reproductive toxicity

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

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** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product Species Test Results

Aquatic

Crustacea ChV Ceriodaphnia 0.625 mg/L, 7 D

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Product		Species	Test Results	
	IC25	Ceriodaphnia	1.9 mg/L, 7 D	
	LC50	Ceriodaphnia	1.5 mg/L, 48 H	
		Daphnia magna	12 mg/L, 48 H	
	LOEL	Ceriodaphnia	1.25 mg/L, 7 D	
	NOEL	Ceriodaphnia	63 mg/L, 48 H	
			0.3125 mg/L, 7 D	
		Daphnia magna	1.5 mg/L, 48 H	
Fish	IC25	Fathead Minnow	5 mg/L, 7 D	
	LC50	Fathead Minnow	14 mg/L, 96 H	
		Rainbow Trout	4.9 mg/L, 96 H	
	NOEL	Fathead Minnow	2.5 mg/L, 96 H	
			1.25 mg/L, 7 D	
		Rainbow Trout	1.6 mg/L, 96 H	
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.			
	No data is available on the degradability of any ingredients in the mixture.			
Bioaccumulative potential	No data available.			
Mahility in anil	No data available for this product			

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. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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 180

UN proper shipping name PHOSPHORIC ACID SOLUTION (Zinc bis(dihydrogen phosphate))

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards Yes
Hazchem code 2R

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

**IATA** 

UN number 1805

UN proper shipping name PHOSPHORIC ACID SOLUTION

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards Yes

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





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## **FLOGARD MS6209**

### **IMDG**

1805 **UN** number

PHOSPHORIC ACID SOLUTION, MARINE POLLUTANT UN proper shipping name

Transport hazard class(es)

8 Subsidiary risk Ш **Packing group** 

**Environmental hazards** 

Marine pollutant Yes

Not available.

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

Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

#### **ADG**



### IATA; IMDG



### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

### 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. Group Standard - Corrosion Inhibitors - Corrosive HSR002547

## Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.







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## **FLOGARD MS6209**

### 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

Phosphoric Acid (CAS 7664-38-2)

#### Australia Medicines & Poisons Appendix F

Phosphoric Acid (CAS 7664-38-2)

#### 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

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

### Australia Medicines & Poisons Schedule 4

Zinc bis(dihydrogen phosphate) (CAS 13598-37-3)

#### Australia Medicines & Poisons Schedule 5

Phosphoric Acid (CAS 7664-38-2)

### Australia Medicines & Poisons Schedule 6

Phosphoric Acid (CAS 7664-38-2)

### 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.

### Australia National Pollutant Inventory (NPI): Threshold quantity

Phosphoric Acid (CAS 7664-38-2) 10 TONNES/YR Threshold Category: 1 Zinc bis(dihydrogen phosphate) (CAS 13598-37-3) 10 TONNES/YR Threshold Category: 1

### **High Volume Industrial Chemicals (HVIC)**

Phosphoric Acid (CAS 7664-38-2) 10000 - 99999 TONNES See the regulation for additional

information.

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

### 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

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On inventory (yes/no)\*

Yes

Yes



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## **FLOGARD MS6209**

Stockholm Convention

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

Basel Convention

Not applicable.

Country(s) or region

### **International Inventories**

Australia

	•	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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

Australian Inventory of Industrial Chemicals (AICIS)

country(s).

NSF Registered and/or meets

United States & Puerto Rico

**USDA** (according to 1998

guidelines):

Registration No. – 140901

Category Code(s):

Inventory name

G5 Cooling and retort water treatment products

Toxic Substances Control Act (TSCA) Inventory

G7 Boiler, steam line treatment products – nonfood contact

### 16. Other information

**Issue date** 15-December-2020

Revision date 12/02/2023

Key abbreviations or acronyms

used

AICIS: Australian Inventory of Industrial Chemicals.

References: No data available

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

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.

**Revision information** Regulatory information: National regulations

Other information: Disclaimer

**GHS: Classification** 

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<sup>\*</sup>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

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