

## SAFETY DATA SHEET

### **GENGARD GN8020**

#### 1. Identification

**Product identifier GENGARD GN8020** 

Other means of identification None.

Recommended use of the chemical and restrictions on use

Deposit controller Deposition / fouling controller Recommended use

Deposit control agent

Restrictions on use Not available.

#### Company/undertaking identification

**VEOLIA WATER TECHNOLOGIES & SOLUTIONS** 

**AUSTRALIA PTY LTD** 

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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** Not classified.

Skin corrosion/irritation Category 2 **Health hazards** 

> Serious eye damage/eye irritation Category 1 Category 1 Sensitization, skin

**Environmental hazards** Not classified.

#### Label elements, including precautionary statements

Hazard symbol(s)



Corrosion

Exclamation mark

Signal word Danger

Hazard statement(s) Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

Precautionary statement(s)

Avoid breathing mist/vapors. Wash thoroughly after handling. Contaminated work clothing should Prevention not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves.

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several

Response

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store away from incompatible materials.

**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 unique identifiers	Concentration of ingredients
CARBOXYLIC ACID POLYMER	TRADE SECRET	10- <30
Maleic acid	110-16-7	0.1-<1

### 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 immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. 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 immediately.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid

responders

Wash contaminated clothing before reuse.

Symptoms caused by exposure

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness

and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. 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

Fire fighting

equipment/instructions

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

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

Avoid breathing mist/vapors. 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. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions** 

Methods and materials for containment and cleaning up

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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

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7. Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes,

skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed 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 No exposure limits noted for ingredient(s).

**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) and a face shield. Face shield is

recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant 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 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. Contaminated work clothing should not be allowed out of the

workplace.

9. Physical and chemical properties

Appearance Liquid
Physical state Liquid.
Form Liquid.

ColorAmber to brownOdorSlightly sweet odorOdor thresholdNot available.

Odor threshold

PH (concentrated product)

Not available 2.6 Neat

Melting point/freezing point

-3 °C

Initial boiling point and boiling

100 °C

range

Flash point Not Applicable

Evaporation rate Slower than Water 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 1.17

21 °C

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Relative density temperature

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Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Viscosity temperature

Not available.

Not available.

17 mPa.s

21 °C

Other physical and chemical parameters

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

pH in aqueous solution 3 (5% Solution)

Pour point 0 °C

VOC 0 % ESTIMATED

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

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 materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

### 11. Toxicological information

### Information on possible routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye damage.

**Ingestion** Expected to be a low ingestion hazard.

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

vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

**Acute toxicity** 

Product	Species	Test Results
GENGARD GN8020		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 5000 mg/kg (Calculated according to GHS additivity formula)
Components	Species	Test Results
CARBOXYLIC ACID POLYM	ER	

Acute Oral

LD50 Rat 4563 mg/kg

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Components	Species	Test Results	
Maleic acid (CAS 110-16-7)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	1560 mg/kg	
Inhalation			
LC50	Rat	> 2.88 mg/L, 4 Hour	
Oral			
LD50	Rat	708 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/irritation	Causes serious eye damage.		
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
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.		

### 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			
	Algae	IC50	Selenastrum (algae)	3872 mg/l, 96 hour (pH adjusted)
		NOEL	Selenastrum (algae)	2000 mg/l, 96 hour (pH adjusted)
	Crustacea	LC50	Daphnia magna	3628 mg/l, 48 hour (pH adjusted)
		NOEL	Daphnia magna	1250 mg/l, 48 hour (pH adjusted)
	Fish	LC50	Fathead Minnow	5814 mg/l, 96 hour (pH adjusted)
			Rainbow Trout	7071 mg/l, 96 hour (pH adjusted)
		NOEL	Fathead Minnow	5000 mg/l, 96 hour (pH adjusted)
			Rainbow Trout	5000 mg/l, 96 hour (pH adjusted)

**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.

- COD (mgO2/g) 359
- BOD 5 (mgO2/g) 21
- BOD 28 (mgO2/g) 3

- Closed Bottle Test (% 1 OECD 301D Degradation in 28 days)

- TOC (mg C/g) 142 (calculated data)

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Maleic acid -0.48

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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 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

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

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

Not established.

### 15. Regulatory information

#### Safety, health and environmental regulations

National regulations This S

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 - Subsidiary hazard HSR002549

#### 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

Poisons schedule number not allocated.

### Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

### 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.

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#### Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

#### **Australia Medicines & Poisons Schedule 5**

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

#### 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)**

Not listed.

### 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)	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



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### **GENGARD GN8020**

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

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

\*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 **USDA** (according to 1998

Registration No. - 144523 Category Code(s):

guidelines):

G5 Cooling and retort water treatment products

G7 Boiler, steam line treatment products - nonfood contact

16. Other information

Issue date 08-February-2021 **Revision date** 19/02/2023

Key abbreviations or acronyms

used

AICIS: Australian Inventory of Industrial Chemicals.

References: No data available

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

Hazard(s) identification: GHS Hazard Statements

Hazard(s) identification: Prevention Hazard(s) identification: Response Hazard(s) identification: Storage

Composition / Information on Ingredients: Disclosure Overrides

First-aid measures: Inhalation

First-aid measures: Symptoms caused by exposure

Handling and storage: Conditions for safe storage, including any incompatibilities

Exposure controls and personal protection: Eye/face protection

Toxicological information: Inhalation

Toxicological information: Specific target organ toxicity - single exposure

Toxicological information: Symptoms related to exposure

**GHS: Classification** 

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