Version: 2.1

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# SAFETY DATA SHEET

## **GENGARD GN8220**

### 1. Identification

Product identifier GENGARD GN8220

Other means of identification None.

Recommended use of the chemical and restrictions on use

Recommended use Corrosion inhibitor
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)

Email: vtc.vwts.apacproductregulatory.all@veolia.com

### **Emergency telephone**

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

## 2. Hazard(s) identification

### Classification of the hazardous chemical

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1Sensitization, skinCategory 1

**Environmental hazards** Not classified.

### Label elements, including precautionary statements

Hazard symbol(s)



Corrosion

Exclamation mark

Signal word Danger

Hazard statement(s) May be corrosive to metals. Causes skin irritation. May cause an allergic skin reaction. Causes

serious eye damage.

Precautionary statement(s)

**Prevention** Keep only in original container. Avoid breathing mist/vapors. Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face

protection. Wear protective gloves.

**Response** IF 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. 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. Absorb spillage to

prevent material damage.

**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 None.



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## **GENGARD GN8220**

Other hazards which do not result in classification

None known.

### 3. Composition/information on ingredients

#### **Mixtures**

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
CARBOXYLIC ACID POLYMER	TRADE SECRET	5- <10
Phosphoric Acid	7664-38-2	1- <5
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.

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. Get medical attention immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid

responders

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

protect themselves. Wash contaminated clothing before reuse.

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

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

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

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** 

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

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## **GENGARD GN8220**

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 get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and 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 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 Components	DELs (Workplace Exposure Star Type	ndards for Airborne Contaminants, Appendix A) Value
Phosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3
US. ACGIH Threshold Limit Val	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

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** For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be

recommended by the glove supplier.

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.

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## **GENGARD GN8220**

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 Not available.

**Color** Amber

Odor Slightly sweet odor

Odor thresholdNot available.pH (concentrated product)2.1 NeatMelting point/freezing point-3 °CInitial boiling point and boiling100 °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 1.16

Solubility(ies)

Relative density temperature

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity8 mPa.sViscosity temperature21 °C

Other physical and chemical parameters

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

pH in aqueous solution 2.5 (5% Solution)

Pour point 0 °C

VOC 0 % ESTIMATED

### 10. Stability and reactivity

**Reactivity** May be corrosive to metals.

Chemical stability Material is stable under normal conditions.

21 °C

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. Metals.

Hazardous decomposition

No hazardous decomposition products are known.

products

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## **GENGARD GN8220**

### 11. Toxicological information

Information on possible routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**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 GN8220		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg (Calculated according to GHS additivity formula)
Inhalation		
Mist		
LC50	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
CARBOXYLIC ACID	POLYMER	
<u>Acute</u>		
Oral		
LD50	Rat	4563 mg/kg
Maleic acid (CAS 11	0-16-7)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	1560 mg/kg
Inhalation		
LC50	Rat	> 2.88 mg/L, 4 Hour
Oral		

Phosphoric Acid (CAS 7664-38-2)

LD50

**Acute** 

Dermal
LD50 Rabbit
Oral

2740 mg/kg

708 mg/kg

LD50 Rat 300 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.

Rat

Germ cell mutagenicity

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

mutagenic or genotoxic.

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## **GENGARD GN8220**

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.

Not an aspiration hazard. **Aspiration hazard** 

Prolonged inhalation may be harmful. **Chronic effects** 

## 12. Ecological information

#### **Ecotoxicity**

Product		Species	Test Results
Aquatic			
Crustacea	LC50	Daphnia magna	1490 mg/L, 48 hour (Estimated)
	NOEL	Daphnia magna	1000 mg/L, 48 hour (Estimated)
Fish	LC50	Fathead Minnow	450 mg/L, 96 hour (Estimated)
	NOEL	Fathead Minnow	310 mg/L, 96 hour (Estimated)

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.

268 (calculated data) - COD (mgO2/g) - BOD 5 (mgO2/g) 15 (calculated data) - BOD 28 (mgO2/g) 37 (calculated data) - Closed Bottle Test (% 14 (calculated data)

Degradation in 28 days)

81 (calculated data)

- TOC (mg C/g) Bioaccumulative potential

> **Partition coefficient** n-octanol / water (log Kow) Maleic acid

-0.48

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

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

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

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

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

Disposal instructions).

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

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

disposal.

### 14. Transport information

#### **ADG**

**UN** number

**UN** proper shipping name CORROSIVE LIQUID, N.O.S. (Phosphoric Acid; Carboxylic Acid Polymer)

Transport hazard class(es)

Class 8 Subsidiary risk Packing group Ш

**Environmental hazards** Not available.

Hazchem code 2X

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# **GENGARD GN8220**

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

IATA

UN number 1760

UN proper shipping name

CORROSIVE LIQUID, N.O.S. (Phosphoric Acid; CARBOXYLIC ACID POLYMER)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No

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

**IMDG** 

UN number 1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (Phosphoric Acid; CARBOXYLIC ACID POLYMER)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant No.

EmS 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



## 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.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

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## **GENGARD GN8220**

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

Poisons schedule number not allocated.

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

**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

**Prohibited Carcinogenic Substances** 

Not regulated.

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

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.

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## **GENGARD GN8220**

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

Not applicable.

Montreal Protocol

Not applicable. Basel Convention

Not applicable.

### International Inventories

Europe

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

JapanInventory of Existing and New Chemical Substances (ENCS)NoKoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYes

Philippines Philippine Inventory of Chemicals and Chemical Substances No

(PICCS)

TaiwanTaiwan Chemical Substance Inventory (TCSI)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

European List of Notified Chemical Substances (ELINCS)

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

Category Code(s):

Registration No. - 144525

guidelines):

G5 Cooling and retort water treatment products

G7 Boiler, steam line treatment products - nonfood contact

### 16. Other information

Issue date 10-February-2021
Revision date 19/02/2023

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 Physical & Chemical Properties: Multiple Properties

Physical and chemical properties: Appearance Physical and chemical properties: Odor 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)

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