

# SAFETY DATA SHEET

## GENGARD GN7004

### 1. Chemical product and company identification

**Product name** GENGARD GN7004

**Recommended use and Limitations on use**

**Recommended use** Dispersant

**Company/undertaking identification**

PT SUEZ WATER TECHNOLOGIES AND SOLUTIONS  
INDONESIA

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**Emergency telephone**

001-803-017-9114 (Indonesia)

+1 703-527-3887 (US)

### 2. Hazards identification

**GHS classification**

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
<b>Environmental hazards</b>	Not classified.	

**Label elements**

**Pictogram**



**Signal word**

Warning

**Hazard statement**

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.

**Precautionary statement**

**Prevention**

Avoid breathing mist or vapor. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.

**Response**

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Get medical advice/attention.

**Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal**

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

**Supplemental information**

None.

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### 3. Composition / information on ingredients

**Substance or mixture**                      Mixtures

The components are not hazardous or are below required disclosure limits.

### 4. First aid measures

#### First aid measures for different exposure routes

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.

**Most important symptoms and effects**                      May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

**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. Wash contaminated clothing before reuse.

**Notes to physician**                      Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

### 5. Fire-fighting measures

<b>Extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Extinguishing media to avoid</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards</b>	During fire, gases hazardous to health may be formed.
<b>Special fire fighting procedures</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Protection of fire-fighters</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Spill clean-up methods</b>	<p>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.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>

### 7. Handling and storage

#### Handling

<b>Technical measures</b>	Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
<b>Local and general ventilation</b>	Provide adequate ventilation.

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<b>Precautions</b>	Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke.
<b>Safe handling advice</b>	Wash hands thoroughly after handling. Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS.
<b>Storage</b>	
<b>Technical measures</b>	Store locked up. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).
<b>Suitable storage conditions</b>	Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).
<b>Incompatible materials</b>	For further information, please refer to section 10 of the SDS.
<b>Safe packaging materials</b>	Keep in original container.

### 8. Exposure controls/personal protection

<b>Exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Engineering measures</b>	Good general ventilation (typically 10 air changes per hour) 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.
<b>Personal protective equipment</b>	
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Eye protection</b>	Face shield is recommended. Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Hygiene measures</b>	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. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

<b>Appearance</b>	Liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Not available.
<b>Color</b>	Yellow to amber
<b>Odor</b>	Mild
<b>Odor threshold</b>	Not available.
<b>pH (concentrated product)</b>	5 Neat
<b>pH in aqueous solution</b>	5.9 (5% Solution)
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-4 °C
<b>Boiling point, initial boiling point, and boiling range</b>	104 °C
<b>Flash point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.

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Vapor pressure	18 mmHg
Vapor pressure temp.	21 °C
Vapor density	< 1
Evaporation rate	Slower than Ether
Relative density	1.13
Relative density temperature	21 °C
Density	Not available.
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	44 mPa.s
Viscosity temperature	21 °C
Pour point	-1 °C
Other data	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	1.134
VOC (Weight %)	0 % CALCULATED

### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability	Not available.
Conditions to avoid	None.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

### 11. Toxicological information

Acute toxicity	Harmful if swallowed.	
<b>Product</b>	<b>Species</b>	<b>Test Results</b>
GENGARD GN7004 (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)
<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.	
<b>Symptoms</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.	
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer. This product is not expected to cause respiratory sensitization.	
<b>Skin sensitization</b>	May cause an allergic skin reaction.	

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<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Not available.
<b>Toxic to reproduction</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Other information</b>	Not available.

## 12. Ecological information

### Ecotoxicological data

Product	Species	Test Results		
GENGARD GN7004 (CAS Mixture)	LC50	Ceriodaphnia	1707.6 mg/L, Static Acute Bioassay, 48 hour	
		Fathead Minnow	2367 mg/L, Static Acute Bioassay, 96 hour	
	LOEL	Ceriodaphnia	1000 mg/L, Chronic Bioassay, 7 day	
		Fathead Minnow	2000 mg/L, Chronic Bioassay, 7 day	
	NOEL	Ceriodaphnia	1250 mg/L, Static Acute Bioassay, 48 hour	
		Fathead Minnow	500 mg/L, Chronic Bioassay, 7 day	
			1250 mg/L, Static Acute Bioassay, 96 hour	
			1000 mg/L, Chronic Bioassay, 7 day	
	<b>Aquatic</b> Crustacea	LC50	Daphnia magna	3677 mg/L, Static Acute Bioassay, 48 hour
		NOEL	Daphnia magna	2500 mg/L, Static Acute Bioassay, 48 hour
Fish		LC50	Rainbow Trout	1894 mg/L, Static Acute Bioassay, 96 hour
		NOEL	Rainbow Trout	1250 mg/L, Static Acute Bioassay, 96 hour

**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.

### Bioaccumulation

**Mobility in soil** No data available for this product.

**Other hazardous effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**Environmental fate** 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.

### Persistence and degradability

## 13. Disposal considerations

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

## 14. Transport information

### IATA

Not regulated as dangerous goods.

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### 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

### Applicable regulations

Additional information is given in the Safety Data Sheet.

**CWC (Law of RI No. 9 of 2008 re: Prohibition on the Use of Chemicals as Chemical Weapon)**

Not regulated.

**CWC (Law of RI No. 9 of 2008 re: Prohibition on the Use of Chemicals as Chemical Weapon, March 10, 2008)**

Not regulated.

**Dangerous Substances that Must be Registered (Regulation of the Minister of Health of the Republic of Indonesia)**

Not regulated.

**Import and Distribution Control of Hazardous Materials (Minister of Trade Regulation No. 75/M-DAG/PER/10/2014, Annex I)**

Not listed.

**Precursor Chemicals (Ministry of Industry and Trade Decree No. 647/MPP/Kep/10/2004 concerning Regulation on Import of Precursors, Attachment 1)**

Not regulated.

**Prohibited Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 1)**

Not regulated.

**Restricted Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 2)**

Not regulated.

**Toxic and Hazardous Materials List (Decree of the Ministry of Industry on the Safeguarding of Toxic and Hazardous Materials in Industrial Plants, No. 148/M/SK/4/1985)**

Not regulated.

**Hazardous Substances Approved for Use (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment I)**

**Listed substances**

Not regulated.

**Listed substances / Allowed until 2040**

Not regulated.

**NSF Registered and/or meets USDA (according to 1998 guidelines):**

Registration No. – 141931

Category Code(s):

G5 Cooling and retort water treatment products

G7 Boiler, steam line treatment products – nonfood contact

## 16. Other information

**Issued by** Not available.

**Disclaimer** Not available.

**Issue date** Nov-14-2013

**Revision date** 27/09/2018

**Legend to abbreviations and acronyms used in the SDS** Not available.

**References and sources for data used to compile the SDS** Not available.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

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