

SAFETY DATA SHEET

1. Identification

Product identifier: HYDREX 1255

Other means of identification: None.

Recommended use of the chemical and restrictions on use

Recommended use: Boiler Water Treatment. PROFESSIONAL USE ONLY

Recommended restrictions: No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

SupplierAddress: Veolia Water Technologies (SEA) PTE LTD

6 Serangoon North Avenue 5, #05-05 Singapore 554910

Contact Person: Hydrex Product Manager

Telephone / Fax: + 65 67155200 / + 65 67155205

E-mail: hydrex.asia@veolia.com

Local Emergency PhoneNumber: +65 3158 6734 (Code: 333239)

Global EmergencyContact: +1-760-476-3960 (Code: 333239)

2. Hazards identification

GHS classification

Physical hazards: Not classified.

Health hazards: Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Environmental hazards: Not classified.

GHS label elements, including precautionary statements

Pictograms:

(!)

Signal word: WARNING

Hazard statements: H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statement

Prevention: P280 - Wear protective gloves/protective clothing/eye protection/face

protection

Response: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.

P321 - Specific treatment (see First aid measures on this label).
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P337 + P313 - If eye irritation persists: Get medical advice/attention.

Storage: Not available

Disposal: P501 - Dispose of contents/container in accordance with local / regional /

national / international regulations.

Other hazards which do not

result in classification: None known.

Supplemental information None



3. Composition/information on ingredients			
Substance or mixture	Mixture		
Chemical name	Common name and synonyms	CAS Number	Concentration (%)
Nitrilotrimethylene tris (phosphonic acid)		6419-19-8	1 - 5
Maleic Acid		110-16-7	< 1
Other components below repo	ortablelevels		> 94

4. First-aid measures		
Inhalation:	Move to fresh air. Call a physician if symptoms develop or persist	
Skin contact:	Wash off with soap and water. Get medical attention if irritation develops and persists	
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.	
Most important symptoms/effects, acute anddelayed:	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.	
Indication of immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.	
General information:	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.	

5. Fire-fighting measures		
Suitable extinguishing media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media:	Not available.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.	
Fire fighting equipment/instructions:	Move containers from fire area if you can do so without risk.	
Special protective equipment and precautions for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards:	No unusual fire or explosion hazards noted.	

	6. Accidental release measures
Personal precautions, protective equipment and emergency procedures:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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. For personal protection, see section 8 of the SDS.
Environmental precautions:	Avoid discharge into drains, water courses or onto the ground.
Methods and materials for containment and cleaning up:	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this ispossible. 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 toremove 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: Avoid forming spray/aerosol mists. Do not taste or swallow. Avoid

contact with eyes. Avoid prolonged exposure. 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.

Conditions for safe storage, including any incompatibilities: Protect from sunlight. Store in tightly closed container. Store away from incompatible materials (seeSection 10 of the SDS). Store in cool, dry place.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s)

Appropriate engineering control measures:

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection: Not available.

Skin protection:

Chemical resistant gloves. Suitable gloves can be recommended by the Hand protection

glove supplier.

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

is recommended. Chemical resistant gloves.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection:

Avoid forming spray/aerosol mists.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: 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 Clear Physical state: Liquid Form: Liquid

Color: Colorless to light yellow

Odor: Ordorless Odor threshold: Not available. pH (as is) @ 25 °C: 8.0 - 11.0

< 32 °F (< 0 °C) Melting point/freezing point:

273.99 °F (134.44 °C) Initial boiling point:

Flash point: Not available. Not available. Evaporation rate: Not available. Flammability: Flammability limit - lower(%): Not available.



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Flammability limit - upper(%):

Explosive limit - lower (%):

Not available.

Explosive limit - upper (%):

Not available.

Vapor pressure:

Vapor density:

Not available.

Relative density:

Not available.

Solubility (Water): Miscible (100%, solube in all propotion)

Explosive property: Not explosive Kinematic viscosity: Not available. Oxidizing property: Not oxidizing Specific gravity (@20 $^{\circ}$ C): 1.13 - 1.17

10. Stability and reactivity

Reactivity: Not available.
Chemical stability: Not available.
Possibility of hazardous reactions: Not available.
Conditions to avoid: Not available.
Incompatible materials: Strong Acids.

Hazardous decomposition At thermal decomposition temperatures, carbon monoxide and carbon

products: dioxide, Phosphorus compounds.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No adverse effects due to inhalation are expected.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: Expected to be a low ingestion hazard

Acute toxicity Not available

Symptoms: Severe eye irritation. Symptoms may include stinging, tearing, redness,

swelling, and blurred vision. Skin irritation. May cause redness and pain

Skin corrosion/irritation: Causes skin 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

Reproductive toxicity:

Specific target organ toxicity Not available.

single exposure:

Specific target organ toxicity Not available.

repeated exposure:

Aspiration hazard: Not an aspiration hazard.

Chronic effects: Not available.



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12. Ecological information				
Ecotoxicity:	does not excl	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	Acute		Species	Test Results
Hydrex 1255	Algae	EC50	Algae	>= 440 mg/l, 96 Hours
	Crustacea	EC50	Daphnia	>= 5800 mg/l, 48 hours
	Fish	LC50	Fish	>= 1000 mg/l, 96 hours
Persistence and degradability:	No data is ava	No data is available on the degradability of any ingredients in the mixture		
Bioaccumulative potential:	No data availa	No data available.		
Mobility in soil:	No data availa	No data available.		
Other adverse effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creationpotential, endocrine disruption, global warming potential) are expected from this component.			

13. Disposal considerations		
Disposal methods/information:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site	
Special precautions:	Dispose in accordance with all applicable regulations	

Not regulated as dangerous goods.

14. Transport information

ADR / RID / AND / IATA / IMDG:

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 specific for the product in question

Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Not regulated. Schedule, Part 1, Jul. 1, 2013):

Chemical Weapons Prohibition (Act): Not applicable.

Environmental Protection and Management (Hazardous Substances) Regulations:

Nitrilotrimethylenetris(phosphonic acid) (CAS 6419-19-8) 0 KG

Environmental Public Health Act: Not applicable

International regulations

Montreal Protocol / Stockholm Convention / Rotterdam Convention / Kyoto protocol / Not applicable. **Basel Convention:**

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	No



Substances(EINECS)

Europe European List of Notified Chemical Substances (ELINCS) No Inventory of Existing and New Chemical Substances Japan Yes

(ENCS)

Korea Existing Chemicals List (ECL) Yes New Zealand **New Zealand Inventory** Yes

Philippine Inventory of Chemicals and Chemical **Philippines** Yes

Substances(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governingcountry(s).

16. Other information

References: Not available

Issued by: VEOLIA WATER Technologies (SEA) Pte Ltd

Prepared by: Veolia Hydrex Team

Disclaimer: Veolia Water Technologies is not able to anticipate all conditions under

> which this information and its product, or the products of other manufacturers in combination with its product, may be used.

It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage

or expense due to improper use and or nonrespect of Veolia Water

Technologies' requirement.

Issue date: 18-DEC-2015 07-MAR-2024 Revision date: Key/legend: Not applicable

Revision information: This document has undergone significant changes and should be reviewed

in its entirety



^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)