



RL Hummate (Pvt) Ltd

103/2, G Block, Model Town,
Lahore, Pakistan
Tel: +92 42 35880103
www.rlenterpz.com
Email: info@rlenterpz.com
NTN: 3384011-3
GST REG NO. 32-77-8761-690-87

Material Safety Data Sheet

Hygen Ultra 275

Chemical Product and Company Identification

Physical State: Liquid
Appearance: Light Yellow Clear Solution
Odour: chlorine-like
pH: 2.5=±0.2

Decomposition Temperature: Not available.
Solubility: Soluble in water.
Molecular Formula: Aqueous solution of ClO_2
MSDS Name: Chlorine Dioxide based aqueous virucidal disinfectant solution

Company Identification: RL Hummate (PVT) LTD
For information, call: +92 (042) 35880103
Web site : www.rlenterpz.com

Composition, Information on Ingredients

Chemical Name	Percent
Free Chlorine Dioxide	0.02-0.03
Chlorine Dioxide and Chlorite mixture	0.4-0.5
Sodium	0.5-0.6
Sulphate	0.6-0.7
Chloride	0.5-0.6
Water	97-97.5
pH	2.5-2.7



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Hazards and First Aid Measures

Accidental Exposure	Potential Health Effects	First Aid Measures
Eyes	Direct contact of concentrated solution with eyes may cause irritation.	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin	Concentrated solution may cause skin irritation.	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion	Concentrated solution may cause gastrointestinal irritation with nausea, vomiting and diarrhea.	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.
Inhalation	Inhalation of Chlorine Dioxide gas may cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen.
Chronic	No information found.	
Notes to Physician		Treat symptomatically and supportively.

Accidental Release Measures

General Information: Use proper personal protective equipment.

Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, using proper protective equipment. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite.



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Handling and Storage

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances like acids.

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Exposure Controls, Personal Protection

Engineering Controls: Use local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities of storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Stability and Reactivity

Chemical Stability: Chlorine dioxide evaporates from its solutions slowly, at normal temperatures releasing chlorine dioxide gas. Decomposition of the solution is influenced by temperature, concentration, pH, ionic strength, exposure to light and the presence of metals. When stored properly the solution maintains its activity for fifteen days. When the packing is opened it should be used within 24 hours.



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Toxicological Information

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information found.

Neurotoxicity: No information found.