

Aditya Birla Chemicals (India) Limited



Product Fact sheet

Liquid Chlorine

Properties	
Appearance	Greenish Yellow
Physical state	Liquified compressed Gas
Vapour pressure @ 35°C	27.48 mm Hg at 20°C
Boiling point /Range	-34 °C (at 1 Atmospheric Pressure)
Melting point/Freezing Point	-101°C
Vapour Density (Air Density= 1)	2.49
Liquid Density (Water density = 1)	1.47 at 20°C
Solubility in water	0.7 % at 20°C
Odour	Irritating, Bleach like Choking Odour
Others	Soluble in alkali's

Chemical Identity	
Formula: Cl ₂	CAS No. 7782 - 50- 5
Molecular Weight: 70.91	Codes - Class 2
UN No. 1017	2 XE

Specifications	
Chlorine Content Min.V/V	99.8%
Moisture	150 ppm Max.
Residue on Evaporation	Shall leave no residue when evaporated on clean white tile

Toxicity	
STEL	3 ppm - 9 mg/m ³
Permissible exposure limits	1 ppm - 3 mg/m ³
TLV (ACGIH)	1 ppm - 3 mg /m ³
Odour Threshold	3.5 ppm - 10.16 mg/m ³

Applications

- Chlorinated Paraffin Wax --Chlorination of paraffin
- White paper -- For bleaching
- Water Purification -- As a disinfectant
- Pesticides -- Lindane(BHC) & Endosulphan
- PVC -- Chlorination
- Textiles -- For bleaching
- Organic Chemicals -- Chloromethanes ,Chlorobenzene, Ethyl Chloride

- Inorganic Chemicals -- SBP, Poly aluminium Chloride, Cupric / Cuprous Chloride, Mercury chloride etc.

Packaging

Liquid Chlorine is provided to the customers in returnable cylinders of ABCIL or else in customers' own cylinders as per the preference of the customer. The capacity of the cylinder provided by ABCIL is 930 Kg in which 900 Kgs of Liquid Chlorine is filled. The specifications of the cylinders of ABCIL are as below:

Specification of Chlorine Tonner	
Water Capacity (approx.) Kg.	780
Chlorine Capacity (approx.) Kg.	930
Design Pressure, Kg/cm ²	19.9
Inside Diameter (approx.) mm	760
Shell Thickness, mm	10
Dished Ends Thickness, mm	9.6 (Min.)
Overall Length (approx.) mm	2085
Tare Weight (approx.) Kg.	620
Valve Outlet	5/8"
Thread	14 tpi bsp

Safety / Precaution: Wear PVC Gloves, PVC aprons, Gumboots, use hood mask airline mask, breathing apparatus.

First Aid Measures: Report at once for medical attention in all cases.

Disposal: Neutralise small spillages (liquid) with Soda ash & drain down sewer with abundant water. In case of large spillages cover the pool with protein foam so that release to atmosphere is low.

Other Details

ITC Classification: 28011000

UN No. 1017

IMO Classification: 2 – Toxic

IMDG No. 2028