

Liquid Chlorine

DESCRIPTION

Liquid chlorine produced by liquification of Chlorine Gas, which is produced in the manufacture of Caustic Soda.

CHEMICAL NAME & FORMULA

Chlorine
Cl₂

CHEMICAL FORMATION

Liquified Gas

INPUT

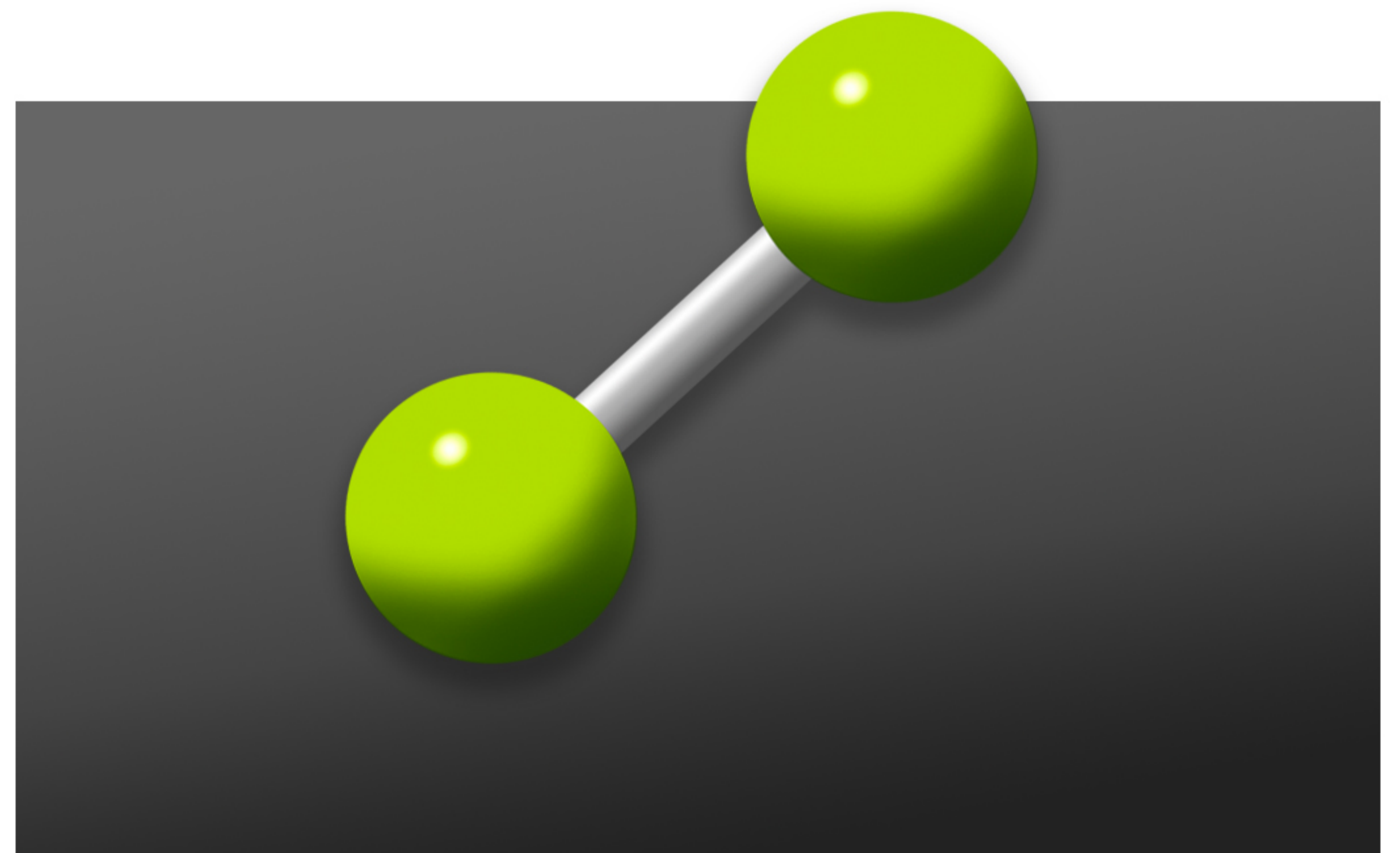
Gaseous Chlorine

OUTPUT

Liquid Chlorine

APPLICATIONS

Liquid chlorine commonly used in Water Treatment, Paper Industry, Pharmaceutical Industry and Textiles.



Product Properties

| Description | Chlorine |
|--------------------|----------------------|
| Appearance | Clear Amber Liquid |
| Corrosive | Yes |
| Flammability | Not Flammable |
| Chemical Stability | Stable |
| Odour | Irritating Choking |
| Boiling Point | -34°C |
| Explosive | Non Explosive |
| Specific Gravity | 1.4685 |
| Incompatibility | With Alkali & Metals |

Product Specifications

| Characteristics | Unit | Liquid Chlorine |
|--------------------|-----------|-----------------|
| Purity as Chlorine | % (V/V) | 99.50 min. |
| Carbon dioxide | % (V/V) | 0.50 max. |
| Nitrogen + Oxygen | % (V/V) | 0.50 max. |
| Hydrogen | % (V/V) | 0.20 max. |
| Moisture | PPM (W/W) | 200 max. |

Related Information

PACKAGING & HANDLING

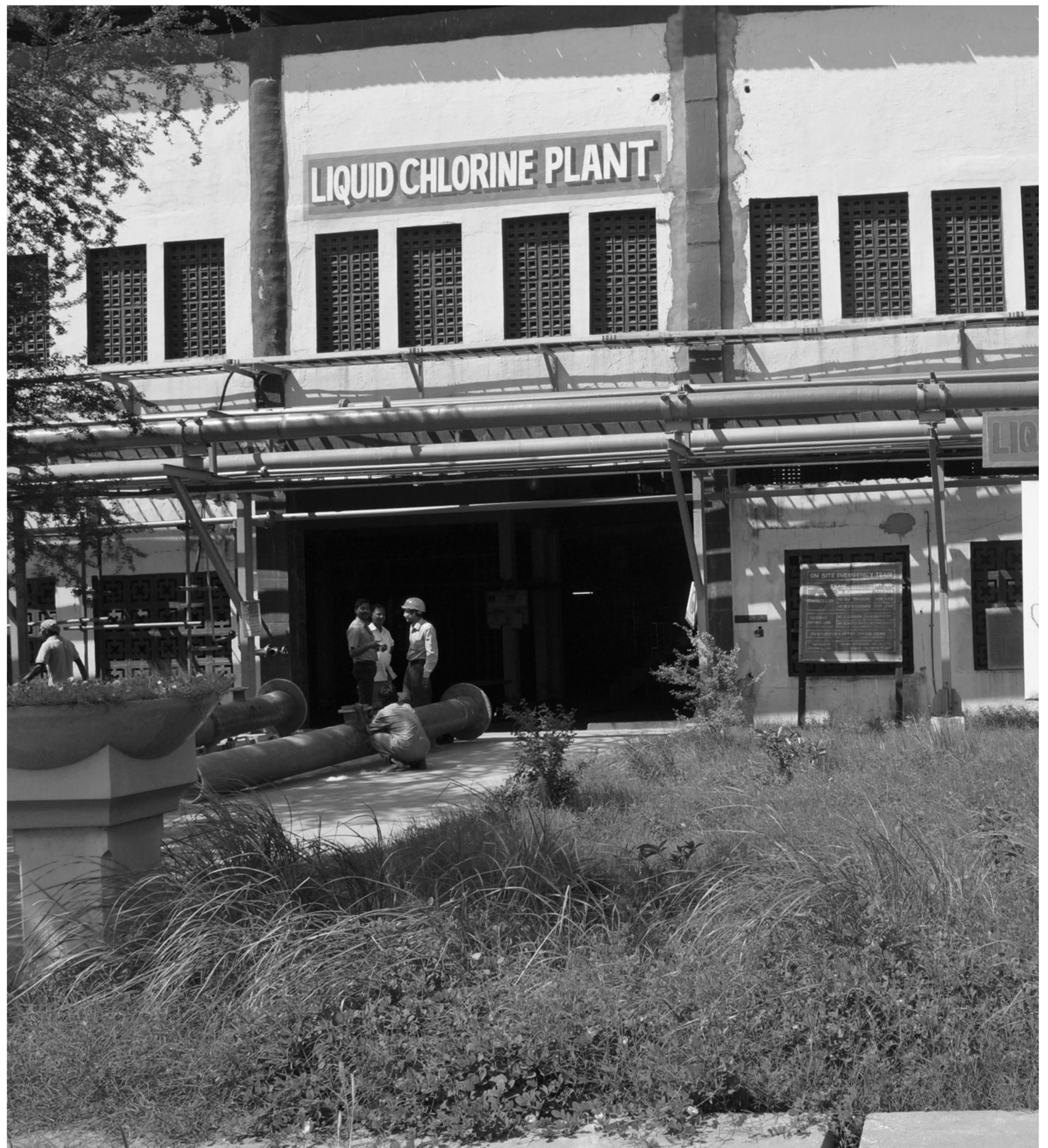
Liquid chlorine is packed in cylinders of capacity 900 kg net for domestic and international market.

TRANSPORT CLASSIFICATION

U.N. No. 1017
 IMCO Class 2
 CAS No. 7782-50-5
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PRODUCT USAGES

Manufacturing of Trichloro & Perchloro Ethylene, Refrigeration, Sanitation, Pesticides, Paper and Pulp, Textile Bleaching.



Product Safety Data

| | |
|--|--|
| Name of Product | Liquid Chlorine |
| Composition / Components | Chlorine, Hydrogen, Carbon Dioxide, Nitrogen and Oxygen |
| Hazard Identification | IMCO Class 2 |
| First Aid Measures | If inhaled , move victim to fresh air areas. If eyes are affected, flush with plenty of water for 15 minutes. Seek medical aid immediately. |
| Measures For Fire Fighting | Not Flammable |
| First Aid Measures In Case Of Unintentional Release | Avoid inhalation & contact. Knock down vapours with water spray or contain liquid with sand. |
| Handling & Storage | Store in a cool, dry relatively isolated and well-ventilated place. |
| Exposure Limit & Staff Protection Equipment | Provide PVC gloves, gum-boots, rubber overcoat, head mask and self-contained breathing apparatus. |
| Physical & Chemical Properties | Clear amber liquid (Greenish Yellow) with irritating/choking odour. Sp Gravity: 1.4685, Melting Point: 101°C, Boiling Point: -34°C. Soluble in Alkalies. |
| Stability & Reactivity | Chemically Stable, Combustible Substance. |
| Information Of Toxicology | Toxic products generated when combustibles burn in Chlorine. |
| Information About Waste Disposal | Neutralise small liquid spillages with Soda Ash & drain with abundant water. Cover with protein foam to control release of vapour to atmosphere. |
| Information About Transport | Liquid Chlorine cylinders transportable in trucks. |
| Statutory Regulatory Information | Shipping Name: Chlorine Solution / Solid. Hazchem Code 2 XE Codes / Label Non Flammable Gas, Class 2 |
| Other Information | U.N. No. 1017/24 IMDG Page: 2116 IMCO Class 2 C.A.S. No. 17782-50-5 |