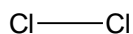


Liquid Chlorine

Bulk Chemicals and Intermediates | Technical Data Sheet

Synonyms

Diatomic chlorine; Dichlorine



Molecular formula	Cl ₂
Molecular weight	70.9
CAS number	7782-50-5
EINECS number	231-959-5

Specifications

Appearance	Greenish-yellow compressed liquefied gas
Purity	99.5% minimum

Physical properties

Freezing point	-101°C
Boiling point	-35°C
Density	3.214 g/l at 0°C
Odour threshold	0.01 ppm
Solubility in water	1.46% w/w at 0°C
Solubility in alkali	Soluble

Description

Chlorine is a greenish-yellow compressed liquefied gas with a pungent and unpleasant odour.

Applications

Intermediate for chemicals

Packaging

Chlorine is available in 100 kg cylinders and 900 kg tonners.

Storage and handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Keep locked up. Keep container dry. Do not ingest. Do not breathe gas | fumes | vapours | spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidising agents, organic materials, metals, alkalis and moisture. Always refer to the Safety Data Sheet (SDS) for detailed information on storage and handling.

Safety

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits. Wear splash resistant safety goggles with a face shield. Provide an emergency eye-wash fountain and quick drench shower in the work area. Wear appropriate chemical resistant clothing and gloves. Always refer to the SDS for detailed information on safety.

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First aid

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin contact: Wash skin with soap and water for at least 15 minutes. Remove all contaminated clothing and shoes. Wash them before reuse. Get immediate medical attention.

Ingestion: Contact a physician or local poison control immediately. Never make an unconscious person vomit or drink fluids. If the person is conscious, give plenty of water or milk to drink and allow vomiting to occur. If the person is unconscious, turn his | her head to one side. Get immediate medical attention.

Inhalation: If adverse effects occur, shift the affected person to an uncontaminated area. Give artificial respiration if the person is not breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

Spills and disposal

In case of spills, immediately contact emergency personnel. Stop leakage if possible without personal risk. Use spark-proof tools and explosion-proof equipment. Avoid contact with combustible materials. The generation of waste should be avoided or minimised whenever possible. Collect spilled material using mechanical equipment. Follow all federal, state or local regulations for disposal of this product, solutions or any by-products.

Contact

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