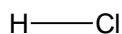


Hydrochloric acid 30%

Bulk Chemicals and Intermediates | Technical Data Sheet

Synonyms

Hydrogen chloride; Muriatic acid



Molecular formula	HCl
Molecular weight	36.5
CAS number	7647-01-0
EINECS number	231-595-7

Specifications

Appearance	Clear, colourless to slight yellowish liquid
Strength	30% w/w minimum
Fe content	0.02% w/w maximum

Physical properties

Boiling point	90°C for 30% HCl in water
Specific gravity	1.145 at 27°C of 30% HCl
Vapour pressure	2.13 kPa at 20°C
Odour threshold	0.25 to 10 ppm
Solubility in water	Soluble

Description

Hydrochloric acid is a clear, colourless to slight yellowish liquid with a strong, pungent odour.

Applications

Intermediate for chemicals and dyes

Packaging

Hydrochloric acid is available in bulk tankers. Other packaging may be considered on request.

Storage and handling

Store in a tightly closed container. Keep in a cool, dry and well-ventilated area. Do not breathe the 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 incompatible materials such as oxidising agents, organic materials, metals, alkalis and moisture. This product may corrode metallic surfaces. Store in a HDPE drum. Always refer to the Safety Data Sheet (SDS) for detailed information on storage and handling.

Safety

Wear personal protective equipment (PPE) such as safety glasses with side shields or chemical goggles, full body suit, vapour respirator, safety shoes and gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product. 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. Cold water may be used. Get immediate medical attention.

Skin contact: Wash the skin with plenty of water for at least 15 minutes. Cold water may be used. Remove contaminated clothing and shoes; wash them before reuse. Apply an emollient to irritated skin. Get immediate medical attention.

Ingestion: If swallowed, do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

Inhalation: If inhaled, shift the person to fresh air. If the person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Spills and disposal

For small spills, use vermiculite, fuller's earth or sand to absorb the liquid. Neutralise with limestone, slaked lime or soda ash. Shovel up and place in a non-metal waste container for disposal. For large spills, dike spill area with soil or sandbags to prevent it from spreading. Prevent liquid from entering sewers and waterways; a water spray can be used to reduce vapours. Neutralise spill area and wash with plenty of water. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

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