

Hydrochloric Acid :

Point no. 1	Chemical product and company identification.
Chemical product	Hydrochloric Acid
synonyms	Hydrochloric Acid, Muriatic Acid, Hydrogen Chloride
Name of Manufacturing Company	M/s. Gujarat Alkalies & Chemicals Limited. P.O. Petrochemicals, Dist. Vadodara Pin code no. 391 346 State – Gujarat, INDIA Telephone No. 2232681, 2232981 –82, 2232039, 2230384 Fax No. 2232130
Point No. 2	Composition, Information on ingredients Hydrochloric Acid, Muriatic Acid, Hydrogen Chloride
Point No. 3	Hazardous Identification Corrosive, Class-8 UN No. 1789 Hazchem No 2 R CAS No 7647-01-0 NFPA rating Health-2, Fire - 0. Reactivity-0
Point No. 4	First Aid Measure Inhalation :- Remove victim to fresh air area restore breathing if required Ingestion :- Give Lime water or milk of magnesia to drink Do not induce vomiting. Call physician Eyes & Skin - Wash with plenty of water.
Point No. 5	Fire Fighting Measure Fire - fire extinguishing - not flammable Special procedures :- keep containers cool by spraying water if exposed to fire Unusual Hazards - flammable gas may be produced on contact with metals. Exposure :- same as first aid measures. Spills - Steps to be taken - shut off tanks if without risk Drench with water. Do not use metal containers for spilled liquid
Point No. 6	Accidental Release Measures Spills - Steps to be taken - shut off leaks if without risk. Drench with water. Do not use metal containers for spilled liquid
Point No. 7	Handling and storage:- Store in a rubber lined or FRP coated steel tanks, away from Oxidizers, in a well ventilated area
Point No. 8	Exposure controls :- TLV (ACGIH) 5 PPM 7 mg/m ³ . STEL - not listed. Permissible exposure limit 15 ppm 7mg/m ³ Odour 15 15-7 (ceiling) ppm mg/m ³ LD-50 (oral) 900 mg/Kg Personal protective equipment PVC/Rubber hand gloves, gas mask with a canister, on line air apparatus. BA set goggles, face shield, gum boots, PVC apron/ suit/head to toe overall
Point No. 9	Physical and chemical properties Boiling range/point C light yellow liquid, Melting freezing point-114.30° C. Vapour pressure at 35°C 23.50 mm/hg at 20°C Odour - pungent Vapour Density (Air =1) 1.3 Solubility - in water at

	<p>30°C at ambient condition. Others. Specific gravity - water = 1.1159 at 20°C PH- acidic</p>
Point No. 10	<p>Stability and Reactivity Chemical Stability - stable ,Incompatibility wrth other material - Sulphuric Acid, Caustic, ammonia, vinyl, acetate, ammes. amides, and most metals. I Reactivity - Highly reactive at NTP i Hazardous Reaction Products .- Potentially dangerous reaction with Sulphuric acid, releases HCl gas</p>
Point No. 11	<p>Toxicological information Skin contact, eye contact, Inhalation, Ingestion Effects of respiratory expos ure/symptoms '- irritation of mucous membrane Of eyes land respiratory tract, liquid causes burns pulmonary edema, laryngeal-spasm. Emergency treatment Inhalation - Remove victim to fresh air area. Restore breathing if required. Ingestion :- Give lime water or milk of magnesia to drink Do not induce vomiting, call physician Skin & Eyes wash with plenty of water.</p>
Point No. 12	<p>Ecological information :- Rapidly hydrolyzee when exposed to water Will exhibit extensive eveporation from soil surfaces Upon [ransport through the soil, materials (especially those with carbonate bases) and Ihe acid will neutralize to some degree.</p>
Point No. 13	<p>Disposal Consideration Chemical waste generators must determine whether a discarded chemicals is ,classified as a hazardous waste. Us EPA guidelines for the classification, ! determination are listed in 40 < FR parts 261 3 additionally, waste generators rnu sl consult state and local hazardous waste regulations to ensure complete and accurate classification</p>
Point No. 14	<p>Transport information :- HCl, CAS No 7647-01-0, UN No 1789 Regulated shipping identification name - Code/Label Hydrochloric Acid Haz chem. No 2 R, Corrosive Class -8, Hazardous Waste ID No 16, EINECS/ELINCS- 231-595-7</p>
Point No. 15	<p>Regulatory information :- Hazardous ingredients - Hydrochloric Acid CAS No. ' 7647-01-0</p>
Point No. 16	<p>Other Information Information contained in this material data sheet is believed to be reliable but no representation. Guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacture/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufacture handled or sold by him as the case may be. The Government makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose.</p>