



HYDROCHLORIC ACID

CHEMICAL NAME / FORMULA :
Hydrochloric Acid/HCl

FORMATION :
Aqueous Solution

PROPERTIES:

Appearance : A Pale Yellow clear Liquid	Boiling Pt/Range : 90°C
Odour : Sharp Irritating odour	Flash Point : Not Pertinent
Flammability : No	Corrosive : YES
Explosive : No	Incompatibility : With Alkali & Metal
Chemical Stability : Stable	

INSTALLED CAPACITY
90,000 TPA

INPUT
Chlorine and Hydrogen gases formed during the manufacture of Caustic Soda

OUTPUT
Hydrochloric Acid of 30-32% concentration

SPECIFICATIONS:

Total Acidity (as HCL)	30%
Relative Density at 27/27°C	1.145
Free Chlorine (as Cl)	10 ppm
Iron (as Fe) by mass	0.002 Max.



PACKAGING AND HANDLING

Material is packed in HMHDPE Barrels. It can also be transported in rubber lined tank trucks.



TRANSPORTATION CLASSIFICATION

U.N. NO. 1789, IMCO Class : 8 IMDG Page : 8183



MATERIAL SAFETY DATA

Given Overleaf



END USERS

Acid pickling and metal cleaning, ore reduction, food processing, activation of petroleum wells, chemical related industry.



MATERIAL SAFETY DATA

NAME OF THE PRODUCT	Hydrochloric Acid
COMPOSITION / COMPONENTS	Hydrochloric Acid above 30%
HAZARDS IDENTIFICATION	IMCO Class - 8
FIRST AID MEASURES	If INHALED, move victim to fresh air area. In case of INGESTION, have the victim drink water and milk. If EYES & SKIN are affected, flush with plenty of water for 15 minutes. Seek medical aid.
MEASURES FOR FIRE FIGHTING	Not a Fire Hazard
MEASURES IN CASE OF UNINTENTIONAL RELEASE	Shut off leaks and drench with water. Do not use metal containers for the spilled liquid. Try to do water spray or contain liquid with sand.
HANDLING AND STORAGE	Store in rubber lined or FRP coated steel tanks away from oxidizers in a well-ventilated place.
EXPOSURE LIMIT AND STAFF PROTECTION EQUIPMENT	Provide rubber hand-gloves, airline mask, chemical protective suit with self-contained breathing apparatus.
PHYSICAL & CHEMICAL PROPERTIES	Pale Yellow or clear liquid with sharp irritating odour. Sp. Gravity (water = 1) is 1.14 – 1.15. Soluble in water, ethyl alcohol & ethyl ether.
STABILITY AND REACTIVITY	Chemically Stable. Reacts with most metals.
INFORMATION OF TOXICOLOGY	Toxic if inhaled or ingested
INFORMATION ABOUT WASTE DISPOSAL	Seal all waste in vapour – tight plastic bags for eventual disposal.
INFORMATION ABOUT TRANSPORT	Transportable in rubber-lined or FRP coated tanks mounted on road trucks.
STATUTORY REGULATORY INFORMATION	Shipping Name : Hydrochloric Acid. Hazchem Code 2 R.Codes/Label – Corrosive, Class 8
OTHER INFORMATION	U.No. No. 1789, IMDG Page : 8183, IMCO Class : 8 and C.A.S. No. 7647-01-0