

MATERIAL SAFETY DATA SHEET

Section 1 – Chemical product and Company identification

Product Identifier:	Hydrochloric acid, (HCl)
Recommended Usage	Steel pickling, Oil well acidizing, Food, Other Food Uses, Ore processing etc.
Manufacturer:	ORIENT PAPER MILLS, CAUSTIC SODA UNIT, AMLAI, DIST: ANUPPUR (M.P.) INDIA. TEL. No. 07652-286266, FAX NO. 091-7652-286290,
Emergency Phone Number:	18-00-111735

Section 2 - Composition, Information on Ingredients

Chemical Identity	:	Hydrochloric Acid
Trade Names/Synonyms	:	Hydrogen Chloride, Muriatic Acid
Minimum Percentage	:	30-33%

Section 3 - Hazards Identification

Corrosive Substance, Class – 8

Section 4 - First Aid Measures

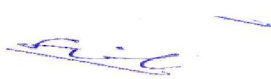

Skin and Eye Contact: Flush affected area with plenty of running water & obtain medical attention immediately.
Inhalation: Move the victim to fresh Air. If not breathing, give respiration; obtain medical attention immediately.
Ingestion: Have victim rinse mouth thoroughly with water. Have victim drink large amount of water. Never give anything by mouth to unconscious person. Obtain medical attention immediately.

Section 5 - Fire Fighting Measures

Extinguishing Media	:	Not Applicable. (Product is non combustible)
Special Exposure Hazards	:	Irritation
Special Protective	:	Self Contained Breathing Apparatus Set Equipment (SCBA Set)
Combustion Products	:	Non - combustible, but decomposes at higher temperatures in to Chlorine & Hydrogen.

Section 6 - Accidental Release Measures

Personal Precautions: Avoid skin & Eye contact, Avoid inhaling fumes. Use appropriate personal protective equipments.

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Environmental Precautions : Avoid generating fumes. Prevent material entering sewers or confined spaces.

Clean up procedure: Contain the spills. Small Acid spillage should be neutralised by using Soda Ash & or lime & Flushed with large quantity of water. Ample ventilation should be provided at the place.

Combustion Products : Non - combustible, but decomposes at higher temperatures in to Chlorine & Hydrogen.

Section 7 - Handling and Storage

Handling Precautions : Avoid contact with skin & eye. Wear personal protective equipments. Avoid generating fumes/mists. Proper ventilation is required.

Storage: Store in cool, clean & well-ventilated area. Keep away from direct sun light.

Incompatible Materials: Bases, Alkali, Reducing agents, carbides explosives etc.

Combustion Products : Non - combustible, but decomposes at higher temperatures in to Chlorine & Hydrogen.

Section 8 - Exposure Controls, Personal Protection

Exposure Controls: Adequate ventilation. Avoid fumes & mist generation. Use personal protective Equipments

Personal Protective Equipment

Respiratory Protection : Anti acid fumes respirator

Eye Protection : Chemical Goggles. Face shield

Hand Protection : Rubber Gloves

Skin Contact : Rubber or PVC apron suit along with Gum Boots.

Hygiene Measures : Avoid direct contact or vapour inhalation. Wash hands thoroughly before eating, drinking or toilet. Do not eat or smoke at work area

Section 9 - Physical and Chemical Properties

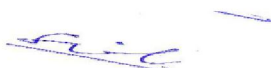

Appearance

Form : Liquid

Colour : Colourless

Odour : Pungent

Safety Data

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pH : Acidic
 Boiling Point : 108 degree C
 Freezing Point : -111 degree C
 Flash Point (Closed Cup) : Not Applicable
 Flammability (Solid, Gas) : Not Applicable
 Explosive Properties : Not Applicable
 Solubility in water : Miscible

Other Data

Vapour Density : '1.27
 Evaporation Rata : Not Applicable
 Conductivity : Not Known
 Volatiles : Non Volatile

Section 10 - Stability and Reactivity

Stability: The product is separated into chlorine and Hydrogen if heated around 1000 degree C

Reactivity: Reactive with most metals and their alloys, Bases Alkali,unsaturated organic products, Reducing agents, Carbides, Explosives, etc.

Hazardous decomposition : Chlorine librates

Combustion Products : Non - combustible, but decomposes at higher temperatures in to Chlorine & Hydrogen

Section 11 - Toxicological Information

Health Effects

Skin & Eye : May cause irritation & burns. May cause severe damages in case splashes in eyes.

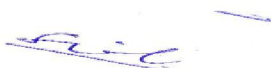

Inhalation : Inhalation of vapours or mist may produce severe Irritation of the upper respiratory tract

Ingestion : Can burn mouth & digestive tract.

LD50 Oral (Rabbit): 900 mg/kg.

Section 12- Ecological Information

Mobility : No
 Persistence and Degradability : Not determined
 Bioaccumulative Potential : Not determined

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Ecotoxicity : Toxic
 Behaviour in Sewage : Not Known
 Combustion Products : Non - combustible, but decomposes at higher temperatures in to Chlorine & Hydrogen.

Section 13 - Disposal Considerations

Product Disposal : Neutralization with alkaline material is usually required before disposal. However, Federal, provincial & local regulations should be reviewed for its disposal.

Section 14 - Transport Information

Transported through MS rubber lined road tankers

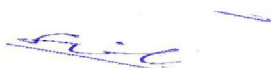

Section 15 - Regulatory Information

Health and Safety Information on Labels: Corrosive substance Class – 8
 RTECS : Not Known

Section 16 - Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information & date contained in the "Material Safety Date Sheet" is drawn from following sources:

1. CIS of Indian Chemical Manufacturers Association
2. IS 6164 – 1971 Code Safety for Hydrochloric Acid

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