

**ORIENT PAPER MILLS - CAUSTIC SODA UNIT, AMLAI, ANUPPUR (M.P.)**

**MATERIAL SAFETY DATA SHEET**

**Section 1 – Chemical product and Company identification**


<b>PRODUCT IDENTIFICATION</b>	<b>Hydrochloric acid, (HCl)</b>
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, E-Mail : csu@opil.in

**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**

**GHS Classification:**



Health	Environmental	Physical	GHS Label:
Acute Toxicity - Category 3 Eye Corrosion - Category 1A Skin Corrosion - Category 1A Skin Sensitization - Category 1 Mutagenicity - Category 1A Carcinogenicity - Category 1B Reproductive/Developmental - Category 1A Target Organ Toxicity (Repeated) – Category 1	Aquatic Toxicity: • Acute 1 • Chronic 1	Substance which in contact with water emit flammable gasses - Category 1	<b>Symbols:</b> skull and crossbones, corrosion, health hazard 

**Hazard Statements Danger!**

- Extremely Corrosive.
- Fatal If Inhaled.
- Avoid Swallowing.
- Causes Severe Skin Burns and Eye Damage. Can Cause Blindness, Permanent Scarring and Death.
- Toxic If Swallowed And In Contact With Skin. Suspected Of Damaging The Unborn Child. Suspected Of Causing Genetic Defects. May Cause Damage To Cardiovascular, Respiratory, Nervous, And Gastrointestinal Systems And Liver And Blood Through Prolonged Or Repeated Exposure. Harmful To Aquatic Life.

**Precautionary Statements**

Do Not Breathe Mist/Vapors.  
Keep Container Tightly Closed.  
Wear Protective Gloves And Eye/Face Protection.  
Store Container Tightly Closed In Cool/ Well-Ventilated Place.  
Wash Thoroughly After Handling.

Page No.	Issue / Rev. No	Date		
<b>1 of 5</b>	07/00	01.04.2025	Issued By (C.T.M.)	Approved By HOD

### 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 amounts 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 noncombustible)

**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 equipment's.

**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 equipment. Avoid generating fumes/mists. Proper ventilation is required.

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

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

**Combustion Products** : Hydrogen

Page No.	Issue / Rev. No	Date		
2 of 5	07/00	01.04.2025	Issued By (C.I.M.)	Approved By HOD

## Section 8 - Exposure Controls, Personal Protection

**Exposure Controls:** Adequate ventilation. Avoid fumes & mist generation. Use personal protective Equipment's

### **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**

**From :** Liquid

**Colour :** Colourless

**Odour :** Pungent

### **Safety data**

**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  
 Coductivity : 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 liberates  
**Combustion Products :** Non - combustible, but decomposed 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 vapors 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  
 Bio accumulative Potential : Not determined  
 Ecotoxicity : Toxic  
 Behaviour in Sewage : Not Known  
 Combustion Products : Non - combustible, but decomposes at higher temperatures in to Chlorine & Hydrogen.

Page No.	Issue / Rev. No	Date		
4 of 5	07/00	01.04.2025	Issued By (C.I.M.)	Approved By HOD

## 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 Data Sheet" is drawn from the following sources:

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

Page No.	Issue / Rev. No	Date		
5 of 5	07/00	01.04.2025	Issued By (C.I.M.)	Approved By HOD