

EMERGENCY HELP LINE NO. 1800-11-1735

MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

Technical Name
Hydrochloric Acid

Synonyms
Muriatic Acid Hydrogen Chloride

Chemical Formula
Hcl

Chemical Classification
Inorganic Acid

Hazard Class
Corrosive - 8

CAS Registry No.
7647-01-0

UN No.
1789

Haz Chem Code
2R

Hazardous Waste ID No.
16

Product Use: Used in purifying coke and iron ores, pickling sheet iron, Regeneration of water treatment resins, photography, pharmaceutical Industries.

HAZARDOUS INGREDIENTS

Hazardous Ingredient	Concentration	CAS/UN NO	LC 50	LD 50
Chlorine				
Hydrogen				

PHYSICAL AND CHEMICAL PROPERTIES

State	Colour		Odour
Aqueous Solution	Colourless		Pungent
Molecular weight	Specific gravity	Water solubility	pH
36.47	1.19 at 20°C	Dilutable	1
Vapour pressure	Vapour density	Freezing Point	
280 mm Hg at 20°C	1.268	-114.8°C	
Melting Point	Boiling Point	Others	
--	110°C	---	

FIRE / EXPLOSION HAZARD DATA

Flammability	TDG Flammability	Flash Point
Non Flammable	--	---
Auto ignition temperature	Explosive range	Hazardous combustion products
--	--	--
Sensitivity to chemical impact		Sensitivity to static discharge
Stable		Stable

REACTIVITY DATA

Chemical Stability
Stable

Incompatibility
Bases, Oxidisers, Oleum, Ethylene
Carbides, Common Metals

Reactivity
Violant reaction with bases, Ammonia,
Ethylene, Oleum etc.,
Corrosive to many metals like Iron, Zinc,
Alluminium.

Dangerous reaction products
Chlorine, Hydrogen

HEALTH HAZARD DATA

Route of entry Skin Contact, ingestion, vapour inhalation.	Permissible limits TLV(C)=5 ppm : 7 mg/M ³	Lethal dose LD50 (Rabbit) = 900mg/kg
Effects on acute exposure Corrosive to human tissue, burns, Severe Irritation of respiratory tract, pulmonary edema.		Effects on Chronic exposure Dermatitis, Teeth damage, Ulcers.
Sensitization to Material ---		Synergistic materials ---

PREVENTIVE MEASURES

Storage requirement :	Handling Methods
Bulk Storage in M.S. Rubber Lined Tanks Small quantities in Plastic Carboys.	Pumping through rubber lined or rigid PVC piping
Engineering Controls	Personal protective equipment
Adequate ventilation. Acid resistant flooring Dike wall	Face shield, Hand Gloves, Gumboot, protective Clothing, Canister Gas Mask.
Leak, spill handling	
Contain leak, spill to preventing enter into sewers. Dilute spills with large amounts of water Neutralise washings with soda ash	
Waste disposal	Special shipping information
Neutralise with Alkaline matter before disposal.	Grades of Purity : Technical 36% aqueous Storage Temp. : Ambient Inert Atmosphere : Not required Venting : Open

EMERGENCY / FIRST - AID MEASURES

Fire extinguishment Non flammable	Special procedure --
First - Aid Eyes/Skin: Wash effected area with running water atleast for 15 minutes	Antidotes --
Ingestion : Large intake of water.	

ADDITIONAL INFORMATION

MANUFACTURER / SUPPLIER / CONSUMER DATA

THE ANDHRA SUGARS LIMITED

Chemical & Fertilisers Division
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