

MATERIAL SAFETY DATA SHEET

CHAUTAUQUA METAL FINISHING SUPPLY
4743 Cramer Drive
Ashville, NY 14710
716-763-4114

FOR CHEMICAL EMERGENCY
Spill, Leak, Fire, Exposure, Accident
Call: CHEMTREC
800-424-9300

Section 1: Material Identification

Trade Name: IMP-500
Chemical Family: Acid Compound
Formula: Proprietary Mixture
DOT Hazard Class: 8
DOT Shipping Name: Hydrochloric Acid
ID Number: UN 1789
Packing Group: PG II

Section 2: Physical Data

Appearance & Odor: Liquid with Pungent Odor
Solubility In Water: Complete
pH Of Solutions: Strongly acidic
Evaporation Rate: Not Determined
Percent Volatile: Not Determined

Section 3: Hazardous Ingredients

Ingredient	Percentage	CAS Number	PEL	TLV
Hydrochloric Acid <i>SARA 313 Chemical as Vapor</i>	Aprox 32%	007647-01-0	5 mg/m ³	5 mg/m ³

mg/m³ = Milligrams Per Cubic Meter
Aprox = Approximately
TWA = Time Weighted Average

TLV = Threshold Limit Value
ppm = Parts Per Million

PEL = Permissible Exposure Limit
N/A = Not Applicable

Section 4: Fire and Explosion Hazard Data

Flash Point: None

Special Procedures: None

Unusual Fire & Explosion Hazards: Contact with many metals will liberate explosive hydrogen gas.

Section 5: Health Hazard Data

Eye: Corrosive, see next section
Skin: Corrosive, see next section
Ingestion: Corrosive, see next section
Inhalation: Corrosive, see next section

MATERIAL SAFETY DATA SHEET

CHAUTAUQUA METAL FINISHING SUPPLY
4743 Cramer Drive
Ashville, NY 14710
716-763-4114

FOR CHEMICAL EMERGENCY
Spill, Leak, Fire, Exposure, Accident
Call: CHEMTREC
800-424-9300

Section 6: Effects of Overexposure

Immediate or Acute Exposure Effects

- Eye Contact:** Rapidly causes severe irritation of the eyes and eyelids. If the acid is not quickly removed by thorough irrigation with water, there may be prolonged or permanent visual impairment or total loss of sight. Hydrogen chloride gas escaping from the aqueous solution is immediately irritating to the eyes.
- Skin Contact:** Irritating and corrosive to skin and can cause severe burns if not properly washed off. Prolonged contact destroys tissue. Repeated contact with the skin may lead to the development of irritant dermatitis.
- Ingestion:** Causes severe burns of mucous membranes of the mouth, esophagus and stomach if swallowed.
- Inhalation:** Inhalation of gas, mist, fog or spray will cause severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat and a choking sensation. If inhaled deeply, edema of the lungs may occur.

Long Term or Chronic Exposure Effects

The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of spray, mist or vapor may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness. Prolonged or repeated exposure to concentrations in excess of TLV may cause discoloration and/or erosion of the teeth.

Section 7: Emergency and First Aid Procedures

- Eye Contact:** Immediately flush with directed stream of water for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of all eye and lid tissue. **Get immediate medical attention.** Contact lens should not be worn when working with this material.
- Skin Contact:** Immediately flush affected skin with plenty of water while removing contaminated clothing and boots. If contact is prolonged or irritation severe, call a physician. Thoroughly clean contaminated clothing and boots before reuse, or discard.
- Ingestion:** **Do not give anything by mouth to an unconscious person.** If conscious, drink large quantities of water or, if available, milk. **Do not induce vomiting. Seek immediate medical attention.** If vomiting occurs, administer additional water. If unconscious, or in convulsions, take immediately to a hospital.
- Inhalation:** Remove victim to fresh air. If victim is not breathing give artificial respiration. If breathing is difficult, oxygen should be administered by a qualified person. Keep victim warm and at rest. **Get immediate medical attention.**

MATERIAL SAFETY DATA SHEET

CHAUTAUQUA METAL FINISHING SUPPLY
4743 Cramer Drive
Ashville, NY 14710
716-763-4114

FOR CHEMICAL EMERGENCY
Spill, Leak, Fire, Exposure, Accident
Call: CHEMTREC
800-424-9300

Section 8: Reactivity Data

Stability: Stable.

Incompatible Materials: Reacts vigorously with alkalis and many metals.

Hazardous Decomposition: The evolution of hydrogen chloride gas accelerated by heating or by contact with water-reactive materials such as sulfuric acid.

Hazardous Polymerization: Will not occur

Section 9: Spill or Leak Procedures

Leak and Spill Procedures: Only trained personnel equipped with NIOSH/MSHA approved, full facepiece combination dust/mist and acid gas respirators should be permitted in area. Dike area to contain spill. Reclaim if possible. Neutralize with soda ash or lime; avoid using Caustic Soda (Sodium Hydroxide). Fan area with water spray to knock down fumes and flush area. Use vacuum truck to pick-up neutralized material for proper disposal. Properly neutralized liquid residue (pH 6 to 9) may be disposed of in waste water treatment facilities which allow the discharge of neutral salt solutions. After all visible traces have been removed, flush area with large amounts of water.

Waste Disposal Method: Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. It is your duty to dispose of the chemical materials and/or their containers in accordance with all federal, state, or local laws and regulations.

Section 10: Special Protection Information

Respiratory protection: Use NIOSH or MSA approved dust/mist respirator for routine work purposes when exposure to dusts/mists exceed the permissible exposure limits. The respirator use limitations made by NIOSH and MSA or the manufacturer must be observed. Respiratory protection programs must be in accordance with 29 CFR 1910.134.

Ventilation: Local exhaust sufficient to maintain dust/mist levels below permissible exposure limit.

Eye protection: Close fitting chemical safety goggles or glasses with face shield.

Gloves: Nitrile, neoprene, natural rubber

Other protective equipment: Clothes should completely cover skin to avoid skin contact. Rubber boots with safety toes, rubber apron PVC clothing, plastic hard hat should be used when necessary to prevent skin contact. Personal protective clothing and use of equipment must be in accordance with 29CFR 1910.133 & 29CFR 1910.132

MATERIAL SAFETY DATA SHEET

CHAUTAUQUA METAL FINISHING SUPPLY
4743 Cramer Drive
Ashville, NY 14710
716-763-4114

FOR CHEMICAL EMERGENCY
Spill, Leak, Fire, Exposure, Accident
Call: CHEMTREC
800-424-9300

Section 11: Special Precautions

Handling and Storage:

- when handling, wear safety goggles;
- wear NIOSH or MSHA approved, dust/mist-type respirators, where dust or mist may be generated;
- store in a dry place, keep container closed when not in use;
- store only in closed, properly labeled containers;
- never touch eyes or face with hands or gloves that may be contaminated with product;
- when making solutions, add this cleaner slowly to surface of cold water while stirring.
- hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed vessels and can cause death. Follow appropriate tank entry procedures (see ANSI Z177.1-1977)

Other Precautions:

- use ventilation adequate to limit employee exposure;
- use all recommended safety and personal protective equipment;
- do not eat, drink, or smoke in work areas.
- do not get in eyes, on skin, or on clothing
- do not breathe mist
- do not swallow

SOURCES: MSDS Information from raw materials.

PREPARED BY: Patricia West
UPDATE: November 16, 1998

The information contained herein is offered only as a guide to the handling of the specific material and has been prepared and compiled in good faith from sources considered to be dependable. The information is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Chautauqua Metal Finishing Supply will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.