Section 1: CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

Product Name: ASTM E340 Table III 50/50

Part Number: ASTME340 Table III 50/50-(all sizes)
Manufacturer: Sturbridge Metallurgical Services Inc.

City, State, Zip Sturbridge MA 01566

Phone Number 508-347-5288

Emergency Phone: CHEMTREC: 1-800-424-9300

Section 2: Hazard(s) Identification

Hazardous classification of the substance or mixture:

Hazard Class	Category code
Eye Irritation	2
Skin Irritation	2
Specific Target organ Toxicity (single	3
Substance or mixture corrosive to metals	1

Signal word: Danger

Pictogram:





Hazard Statements:

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H315 Causes skin irritation

H290 May be corrosive to metals

Precautionary Statements:

P280 Wear protective gloves and eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water/...

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Response statements:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or physician.

P301+P330+P331IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/...

Storage statements:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal statement:

P501 Dispose of contents in accordance with local, state, federal and international regulations.

Section 3: Composition/Information on Ingredients

Component	CAS NUMBER	NUMBER Concentration	
Hydrochloric Acid	7647-01-0	18-50%	
Water	7732-18-5	Balance	

Section 4: First-Aid Measures

General Information:

IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

After Inhalation:

Call a POISON CENTRE/doctor/.... Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped administer artificial respiration.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

Most important symptoms and effects, both acute and delayed

no data available

Indication of any immediate medical attention and special treatment needed

no data available

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons

no restriction

Special hazards arising from the substance or mixture

In case of fire may be liberated: Hydrogen chloride (HCl)

Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus

Additional informatioN

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Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

In case of major fire and large quantities: Remove persons to safety. Wear a self-contained breathing apparatus and chemical protective clothing.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Cleanup and Containment Methods and Materials

Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Soak up inert absorbent and dispose as waste requiring special attention.

Section 7: Handling and Storage

Precautions for safe handling: Avoid: Inhalation Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Handle under (Gas): Protective gas, dry

Condition for safe storage: Keep in a cool, well-ventilated place. Due to gaseous decomposition products, overpressure can occur in tightly sealed containers. Container should not be closed gas-tight.

Specific storage requirement(s): No information.

Section 8: Exposure Controls/Personal Protection Exposure Limits

Component	CAS No.	ACGIH TLV	OSHA PEL
Hydrochloric Acid	7647-01-0	2 ppm (Ceiling)	5 ppm (Ceiling)
Water	7732-18-5	NA	NA

Engineering controls: Use general and/or local exhaust ventilation to control the vapor concentration.

Eye protection: Wear safety glasses or goggles.

Skin protection: Wear protective clothing and chemical resistant gloves.

Respiratory protection: Respiratory protection necessary at: aerosol or mist formation. Use self-contained respiratory device in emergency

situation.

Section 9: Physical and Chemical Properties

Appearance: Colorless, liquid.

Odor: Acrid odor. Do not breathe fumes.

Solubility: no data available **Specific Gravity:** no data available

pH: <1 (20°C)

% Volatiles by volume @ 21C (70F): no data available

Boiling Point: no data available

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Melting Point: no data available
Vapor Density (Air=1): no data available
Evaporation Rate (BuAc=1): no data available

Section 10: Stability and Reactivity

Reactivity: Corrosive to metals

Stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions: Explosive reaction with: Alkali metals Alkaline earth metal Alkali (lye) Violent reaction with: light

metals Powdered metals Exothermic reaction with: Water Substance, organic

Conditions to avoid: Humidity Incompatible materials: Metal

Hazardous Decomposition Products: No data available

Section 11: Toxicological Information:

Acute Toxicity - Oral Exposure: No data available
Acute Toxicity - Dermal Exposure: No data available
Acute Toxicity - Inhalation Exposure: No data available
Acute Toxicity - Other Information: No data available

Irritant and corrosive effects

Primary irritation to the skin: Causes skin irritation **Irritation to Eye:** Causes serious eye damage.

Respiratory or Skin Sensitization: In case of skin contact: not sensitizing After inhalation: not sensitizing

STOT- single exposure: May cause respiratory irritation

STOT-repeated exposure: Not applicable

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity: No indication of human carcinogenicity

Germ cell mutagenicity: No indications of human germ cell mutagenicity exist. **Reproductive toxicity:** No indications of human reproductive toxicity exist.

Aspiration hazard: not applicable
Other adverse effects: no data available
Additional Information: no data available

Section 12: Ecological Information

Ecotoxicity

Acute (short-term) fish toxicity: no data available Chronic (long-term) fish toxicity: no data available Acute (short-term) daphnia toxicity: no data available Chronic (long-term) daphnia toxicity: no data available Acute (short-term) algae toxicity: no data available Chronic (long-term) algae toxicity: no data available Persistence and degradability: no data available

Bioaccumulative potential: Partition coefficient: n-octanol/water: no data available

Mobility in soil: no data available

Results of PBT/vPvB assessment: no data available

Other adverse effects: no data available

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Section 13: Disposal Considerations

Waste treatment methods

Appropriate disposal / Product: Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste

disposal.

Waste code product: no data available

Appropriate disposal / Package: Dispose according to local legislation. Handle contaminated packages in the same way as the substance

itself.

Additional information: no data available

Section 14: Transportation Information

Transportation by Land - Department of Transportation (DOT, United States of America)

UN Number: UN1789

Proper Shipping Name: Hydrochloric Acid

Hazard Class: 8
Packing Group: ||
Hazard Placard Label:



Transportation by Air-International Air Transport Association (IATA) UN Number:

UN1789

Proper Shipping Name: Hydrochloric Acid

Hazard Class: 8
Packing Group: ||
Hazard Placard Labels:



Section 15: Regulatory Information

TSCA Inventory Status: All ingredients are listed on the TSCA inventory.

Federal and State Regulations:

Connecticut hazardous material survey: Hydrochloric acid

Illinois toxic substances disclosure to employee act: Hydrochloric acid

Illinois chemical safety act: Hydrochloric acid New York release reporting list: Hydrochloric acid

Rhode Island RTK hazardous substances: Hydrochloric acid

Pennsylvania RTK: Hydrochloric acid Minnesota: Hydrochloric acid

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Massachusetts RTK: Hydrochloric acid Massachusetts spill list: Hydrochloric acid

New Jersey: Hydrochloric acid

New Jersey spill list: Hydrochloric acid

Louisiana RTK reporting list: Hydrochloric acid Louisiana spill reporting: Hydrochloric acid

California Director's List of Hazardous Substances: Hydrochloric acid

SARA 302/304/311/312 extremely hazardous substances: Hydrochloric Acid SARA 313 toxic chemical notification and release reporting: Hydrochloric Acid

CERCLA: Hazardous Substances: Hydrochloric Acid, 5000lbs.

California Proposition 65: No

WHMIS Canada: Class E - corrosive liquid.

Class D-2A – Material causing other toxic effects (very toxic)

DSCL (EEC): R35 – Causes severe burns.

Section 16: Other Information

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