



The Worldwide Resource...

THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED *STAR EXPORT HOUSE*
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

Material Safety Data Sheet Hydrochloric Acid, 20 Baume - 30 - 36%

Section 1 - Chemical Product and Company Identification

Product Name : HYDROCHLORIC ACID, 20 Baume - 30 - 36%
Synonyms : Muriatic acid; hydrogen chloride, aqueous, 20 Baume

Company Identification : THE BTTCO OVERSEAS
6, ASHIRVAD COMPLEX,
NR. SARDAR PATEL SEVA SAMAJ HALL,
NAVRANGPURA, AHMEDABAD – 380009 GUJARAT, INDIA.

Company Phone Number : +91-79-26467891
Emergency Phone Number : +91-9426596891

Section 2 - Composition, Information on Ingredients

Chemical Name : HYDROCHLORIC ACID
CAS# : 7647-01-0
Percent : 100% natural mineral clay
EINECS No : 310-127-6

Section 3 - Hazards Identification

Emergency Overview : POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR INHALED. INHALATION MAY CAUSE LUNG DAMAGE.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating : 3 - Severe (Poison)
Flammability Rating : 0 - None
Reactivity Rating : 2 - Moderate
Contact Rating : 4 - Extreme (Corrosive)
Lab Protective Equip : GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

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Storage Color Code : White (Corrosive)

Section 4 - First Aid Measures

- Eye Contact** : Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- Inhalation** : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- Ingestion** : DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5 - Fire Fighting Measures

Inflammable, not toxic. No reported risk in the event of fire.

- Special Firefighting Procedures** : Not Applicable
Unusual Fire & Explosion Hazards : Not Applicable

Section 6 - Accidental Release Measures (STEPS FOR SPILLS)

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!



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Section 7 - Handling and Storage

Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials. Do not wash out container and use it for other purposes. When diluting, the acid should always be added slowly to water and in small amounts. Never use hot water and never add water to the acid. Water added to acid can cause uncontrolled boiling and splashing. When opening metal containers, use non-sparking tools because of the possibility of hydrogen gas being present. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Section 8 - Exposure Controls, Personal Protection

Airborne Exposure Limits:

For Hydrochloric acid:

OSHA Permissible Exposure Limit (PEL) : 5 ppm (Ceiling)

ACGIH Threshold Limit Value (TLV) : 2 ppm (Ceiling), A4 Not classifiable as a human carcinogen

Ventilation System : A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved) : If the exposure limit is exceeded, a full facepiece respirator with an acid gas cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.
WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Eye Protection : Use chemical safety goggles and/or a full-face shield where splashing is possible. Maintain eyewash fountain and quick-drench facilities in work area.

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Skin Protection : Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Section 9 - Physical and Chemical Properties

Appearance : Colorless, fuming liquid.
Odor : Pungent odor of hydrogen chloride
Solubility : Infinite in water with slight evolution of heat
Density : 1.18
pH : For HCL solutions: 0.1 (1.0 N), 1.1 (0.1 N), 2.02 (0.01 N)
% Volatiles by volume @ 21C (70F) : 100
Boiling Point : 53C (127F) Azeotrope (20.2%) boils at 109C (228F)
Melting Point : -74C (-101F)
Vapor Density (Air=1) : No information found
Vapor Pressure (mm Hg) : 190 @ 25C (77F)
Evaporation Rate (BuAc=1) : No information found

Section 10 - Stability and Reactivity

Stability : Stable under ordinary conditions of use and storage. Containers may burst when heated.

Hazardous Decomposition Products : When heated to decomposition, emits toxic hydrogen chloride fumes and will react with water or steam to produce heat and toxic and corrosive fumes. Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas.

Hazardous Polymerization : Will not occur

Incompatibilities : A strong mineral acid, concentrated hydrochloric acid is incompatible with many substances and highly reactive with strong bases, metals, metal oxides, hydroxides, amines, carbonates and other alkaline materials. Incompatible with materials such as cyanides, sulfides, sulfites, and formaldehyde.

Conditions to Avoid : Heat, direct sunlight.

Stability : Chemically stable, no particular incompatibility, product is without risk of decomposition.

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Section 11 - Toxicological Information

Inhalation rat LC50 : 3124 ppm/1H
oral rabbit LD50 : 900 mg/kg (Hydrochloric acid concentrated);
investigated as a tumorigen, mutagen,
reproductive effector.

-----\Cancer Lists\ -----

-----NTP Carcinogen-----

Ingredient Known Anticipated IARC Category

Hydrogen Chloride (7647-01-0) No No 3
Water (7732-18-5) No No None

Section 12 - Ecological Information

Environmental Fate : When released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater.

Environmental Toxicity : This material is expected to be toxic to aquatic life.

Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Residual Waste / Unused Products : They can be buried in accordance with local regulations. The material must be buried to prevent emission of breathable dust. If possible, recycling is preferable to storing.

Packaging : No particular requirement. In all cases, dust formation due to residues during packaging must be avoided and suitable protection must be provided to workers.

Section 14 - Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name : HYDROCHLORIC ACID

Hazard Class : 8

UN/NA : UN 1789

Packing Group : II

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International (Water, I.M.O.)

Proper Shipping Name : HYDROCHLORIC ACID
Hazard Class : 8
UN/NA : UN 1789
Packing Group : II

IATA Classification : Not classified
IMDG : Not classified

Section 15 - Regulatory Information

Risk and Safety Phrases:

Symbol : C
Risk : 34-37
Safety : (1/2-)26-45

-----\Chemical Inventory Status - Part 1\-----
Ingredient TSCA EC Japan Australia

Hydrogen Chloride (7647-01-0) Yes Yes Yes Yes
Water (7732-18-5) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part 2\-----
Ingredient --Canada--
Korea DSL NDSL Phil.

Hydrogen Chloride (7647-01-0) Yes Yes No Yes
Water (7732-18-5) Yes Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----
-SARA 302- ----SARA 313----

Ingredient RQ TPQ List Chemical Catg.

Hydrogen Chloride (7647-01-0) No
Water (7732-18-5) No

-----\Federal, State & International Regulations - Part 2\-----
-RCRA- -TSCA Ingredient CERCLA 261.33 8(d)

Hydrogen Chloride (7647-01-0) 5000 No No
Water (7732-18-5) No No No
Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Mixture / Liquid)

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Section 16 - Other Information

NFPA Ratings:

Health : 3
Flammability : 0
Reactivity : 1

Label Hazard Warning : POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED OR INHALED. INHALATION MAY CAUSE LUNG DAMAGE.

Label Precautions : Do not get in eyes, on skin, or on clothing.
Do not breathe vapor or mist.
Use only with adequate ventilation.
Wash thoroughly after handling.
Store in a tightly closed container.
Remove and wash contaminated clothing promptly.

Label First Aid : In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases, get medical attention immediately.

Product Use : Laboratory Reagent

Revision Information : No Changes

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