

SAFETY DATA SHEET

HYDROCHLORIC ACID 11BE 16%

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	Hydrochloric Acid 11BE 16%, Muriatic Acid 16%,
Product Use:	Acidic additive
Supplier Name and Address:	Corpack Canada 16 Seapark Drive, St. Catharines, ON L2M 6S6
Telephone:	: (905) 682-8888
Emergency Telephone:	: CANUTEC (613) 996-6666

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Physical State:	Clear, colourless liquid
GHS Classification:	
Skin Irritation:	Category 1C
Eye Irritation:	Category 1
Acute Toxicity:	Category 3
GHS Label Elements:	
Hazard Pictograms	



Signal Word:	Danger
Hazard Statements:	H302+H312 Harmful if swallowed or in contact with skin H319 Causes serious eye irritation
Precautionary Statements:	Prevention P262 Do not get in eyes, on skin, or on clothing P280 Wear protective gloves/protective clothing/eye protection P284 In case of inadequate ventilation wear respiratory protection Response P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing P332+P313 If skin irritation persists, get medical attention P391 Collect spillage
Potential Health Effects:	
Inhalation	: Symptoms of exposure may include: nasal discharge, hoarseness, coughing, chest pain and breathing difficulty. Accumulation of fluid in the lungs (pulmonary edema may occur)
Skin	: Causes burns. Harmful if absorbed through the skin. Symptoms of exposure may include: Redness or discoloration, swelling, itching, burning or blistering of skin. Prolonged or repeated contact may cause skin sensitization
Eyes	: Causes severe eye burns. May cause permanent eye damage. Symptoms of exposure may include: eye irritation, burning sensation, pain, watering and/or change



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Ingestion : of vision
: Causes digestive tract burns. Symptoms of exposure may include: inflammation of mouth, throat, esophagus and/or stomach. Nausea, vomiting, loss of appetite, gastrointestinal irritation and/or diarrhea

Aggravated Medical Condition : None known

Symptoms of Overexposure : None known

SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Concentration [%]
Hydrochloric Acid	7647-01-0	14-18

SECTION 4 - FIRST-AID MEASURES

General Advice : Move out of dangerous area
Consult a physician
Show this Safety Data Sheet to the doctor in attendance

Inhalation : Move victim to fresh air. Give artificial respiration only if breathing has stopped.
Give cardiopulmonary resuscitation (CPR) if there is no breathing and no pulse. Obtain medical advice immediately.

Skin Contact : Remove contaminated clothing immediately. Wash exposed areas with copious amounts of running water. May be neutralized with sodium bicarbonate, epsom salts, or vinegar. Call a physician if necessary.

Eye Contact : Flush with running water for 20 minutes lifting the upper and lower eyelids occasionally. Remove contact lenses if present. If irritation persists, get medical attention.

Ingestion : Do not induce vomiting. If victim is alert and not convulsing, give 1-2 glasses of water to dilute material. Immediately contact local poison control centre. Vomiting should be induced under the direction of a physician or a poison control centre. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of liquid. Administer more water if necessary. Immediately transport victim to an emergency facility.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water fog, carbon dioxide, dry chemical

Specific hazards arising from the chemical : Oxides of carbon and incomplete combustion products may be formed during combustion

Special protective actions for fire-fighters : None

Additional advice : None

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions	: Wear appropriate protective equipment. Isolate for 800 meters or 0.5 miles in all directions if tank, rail car, or tank truck is involved in fire. Evacuate downwind areas as conditions warrant to prevent exposure and to allow vapours or fumes to dissipate. Spills may expose downwind areas to toxic or flammable concentrations over considerable distances in some cases
Environmental precautions	: Prevent entry into sewers or streams. Dike if needed.
Methods and materials for containment/ cleaning up	: Eliminate all ignitions sources. Contain spill by diking. If fire potential exists, blanket spill with alcohol type aqueous film-forming foam or use water fog stream to disperse vapours. Neutralize the residue with sodium carbonate or crushed limestone. Absorb with an inert dry material and place in an appropriate waste disposal container.
Additional advice	: None

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling	: Minimize exposure of this product to skin, respiratory system, and eyes
Conditions for safe storage	: Store product in suitable labeled containers. Keep container closed when not in use
Other data	: Rinse work area after use. Keep out of reach of children. Avoid contamination of food. Wash hands thoroughly after handling

SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters	: None available
Engineering Controls	: Normal building ventilation is adequate Ensure that eyewash stations and safety showers are close to the workstation location
Personal Protective Equipment	
Eye/face protection	: Safety glasses with side shields when there is potential for eye contact. Contact lenses should not be worn
Hand protection	: Nitrile or rubber gloves are recommended
Skin protection	: Protective coveralls or thick clothing that covers exposed skin
Respiratory protection	: Suitable breathing mask if mists or vapors are present
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice When using do not eat or drink When using do not smoke Wash hands before breaks and at the end of the workday

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	: Clear, colourless liquid
Odor:	: Strong
Odor Threshold:	: Not available
pH:	: 1-2
Melting point/ freezing point:	: 0 °C

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Initial boiling point and boiling range:	: 100 °C
Flash point:	: >70 °C
Evaporation rate:	: Same as water
Flammability (solid, gas):	: UEL 16%, LEL 4%
Upper/lower flammability or explosive limits:	: Not available
Vapour pressure:	: Not available
Vapour density:	: Not available
Relative density (g/mL):	: 1.0
Water solubility:	: Miscible
Solubility in other solvents:	: Not available
Partition coefficient: n-octanol/water:	: Not available
Auto-ignition temperature:	: Not available
Decomposition temperature:	: Not available
Viscosity:	: As water

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	: Product is stable
Chemical Stability	: Stable under normal conditions
Possibility of hazardous reactions	: Hazardous polymerization will not occur
Conditions to avoid	: Do not mix with strong acids, oxidizing and reducing agents, chlorine bleach
Incompatible materials	: Not available
Hazardous decomposition products	: None

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity	: Not available
Skin Corrosion/ Irritation	: Not available
Serious eye damage/irritation	: Not available
Respiratory or skin sensitization	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available

Toxicology Data for Ingredients

Hydrochloric Acid

Acute toxicity	: LD50 oral, rabbit: 900 mg/kg LC50 vapour, mouse: 1108 ppm, 1h LC50 vapour, rat: 3124 ppm, 1h LDL/LCL oral, man: 2857 ug/kg LCL inhalation, man: 1300 ppm/ 30min LCL inhalation, rabbit: 4413 ppm/ 30 min
Skin irritation	: Very hazardous in case of skin contact (corrosive, irritant, permeator), of ingestion.
Eye irritation	: Hazardous in case of eye contact (corrosive)
Sensitization	: Not available

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Other

: Acute Potential Health Effects: Skin: Corrosive. Causes severe skin irritation and burns. Eyes: Corrosive. Causes severe eye irritation/conjunctivitis, burns, corneal necrosis. Inhalation: May be fatal if inhaled. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract. Inhalation of hydrochloric acid fumes produces nose, throat, and laryngeal burning, and irritation, pain and inflammation, coughing, sneezing, choking sensation, hoarseness, laryngeal spasms, upper respiratory tract edema, chest pains, as well as headache, and palpitations. Inhalation of high concentrations can result in corrosive burns, necrosis of bronchial epithelium, constriction of the larynx and bronchi, nasespetal perforation, glottal closure, occur, particularly if exposure is prolonged. May affect the liver. Ingestion: May be fatal if swallowed. Causes irritation and burning, ulceration, or perforation of the gastrointestinal tract and resultant peritonitis, gastric hemorrhage and infection. Can also cause nausea, vomiting (with "coffee ground" emesis), diarrhea, thirst, difficulty swallowing, salivation, chills, fever, uneasiness, shock, strictures and stenosis (esophageal, gastric, pyloric). May affect behavior (excitement), the cardiovascular system (weak rapid pulse, tachycardia), respiration (shallow respiration), and urinary system (kidneys- renal failure, nephritis). Acute exposure via inhalation or ingestion can also cause erosion of tooth enamel. Chronic Potential Health Effects: dyspnea, bronchitis. Chemical pneumonitis and pulmonary edema

SECTION 12 - ECOLOGICAL INFORMATION

Product Information:

Toxicity: : Not available
 Persistence and degradability: : Not available
 Bioaccumulative potential: : Not available
 Mobility in soil: : Not available
 Other adverse effects: : Not available

Toxicology Data for Ingredients:

Hydrochloric Acid

Toxicity: : LC50 Not available
 Persistence and degradability: : Not available
 Bioaccumulative potential: : Not available
 Mobility in soil: : Not available
 Other adverse effects: : Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Product

: Sanitary sewer or dry absorbent if available.
 For large quantities, contact local environmental department or government authorities
 Do not dispose in drains, waterways, or soil
 Do not contaminate ponds, or ditches with chemical or the used container.



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SECTION 14 - TRANSPORT INFORMATION

UN Number	: UN 1789
UN Proper Shipping Name	: Hydrochloric acid solution UNNA 1789
Transport hazard class(es)	: 8
Packing group, if applicable	: III
Environmental hazards	: Not applicable
Special precautions for user	: None
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not applicable

SECTION 15 - REGULATORY INFORMATION

No other special information is applicable

SECTION 16 - OTHER INFORMATION

Prepared by: Technical Services
Telephone number: (905) 682-8888

Preparation date: January 2018

NOTICE: The data and information presented herein are based upon tests, research and reports which are considered by us to be reliable and believed to be accurate. The data and information are presented without warranty, guarantee or liability on our part, and are presented to the customer for his own consideration, investigation and verification. If user requires independent information on ingredients in this or any other material, we recommend contact with Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905 572-4400)