

## MURIATIC ACID, 20 BAUME

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	MURIATIC ACID, 20 BAUME
Reference Number	40000697
Company	KIK Custom Products 33 MacIntosh Blvd. Concord, Ontario L4K 4L5 T: 905-660-0444
24 Hour Emergency Contact	1-800-255-3924
Prepared By	Product Development KIK Classic Division
Revised Date	01-25-12      Revision 1

### SECTION 2: HAZARD IDENTIFICATION

**General Advice:** DANGER!

CAUSES SEVERE EYE BURNS. MAY CAUSE BLINDNESS.

CAUSE SEVERE SKIN BURNS.

MAY BE HARMFUL IF SWALLOW.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

If irritation occurs see a doctor immediately. Keep out of reach of children and pets.

**Routes of Exposure:** Eyes, Skin, Inhalation, Ingestion

**Potential Health Effects:**

**Eyes:** Low concentration of vapor or mist can be irritation, causing redness. Concentrated vapor, mist or splashed liquid can cause severe irritation, burns and permanent blindness.

**Skin:** Contact may produce severe irritation or corrosive skin damage, depending upon length of contact and amount of acid. Effects range from dermatitis, photo sensitization, redness, swelling, pain, permanent scarring, to death..

**Inhalation:** Vapor or mist can cause irritation to nose, throat and upper respiratory tract.

Symptoms include: coughing, choking, and bleeding of the nose and gums. Severe exposure can result in pulmonary edema and corrosion of tissues in the nose and throat.

**Ingestion:** Causes severe burns of the mouth, esophagus, and stomach, with consequent pain, nausea, vomiting, diarrhea, circulatory collapse, and possibly death.

**Target organs:** Eyes. Skin.

**Chronic effects:** Not known.

---

## MURIATIC ACID, 20 BAUME

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<i>Chemical Name</i>	<i>Concentration</i>	<i>CAS No.</i>	<i>Worker Exposure Limit</i>
Water	60% - 90%	7732-18-5	none
Hydrochloric Acid	10% - 40%	7647-01-0	Not Established

### SECTION 4: FIRST AID MEASURES

**Eyes:** Flush eyes immediately with lukewarm water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. See doctor immediately.

**Skin:** Remove contaminated clothing. Immediately wash the skin with copious amount of lukewarm water for at least 20 - 30 minutes. See doctor immediately.

**Inhalation:** Move to fresh air immediately and restore breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. See doctor immediately.

**Ingestion: DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL!** Rinse mouth out with water. Drink 1 or 2 glasses of water, if swallowing is possible. Do not give anything by mouth to a convulsing or unconscious person. See a doctor immediately.

### SECTION 5: FIRE FIGHTING MEASURES

This product is neither flammable nor explosive.

Suitable extinguishing media : Treat for surrounding material.

Protective equipment for fire-fighters : As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

Fire and Explosion Hazards: Normally none, but contact with metal can form hydrogen gas. Hydrogen is extremely flammable and can form explosive mixture with air. Container may explode if heated due to resulting pressure rise.

---

## MURIATIC ACID, 20 BAUME

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Always contained all type of spills. Be sure to wear protective equipment (see Section 8)

**Leak and Spill Procedure:** Small spills and residues can be neutralized with alkalis such as soda ash or lime and residual sludge shoveled into a container for future disposal. Carbon dioxide will be release so use caution. Dispose of in accordance with local, state/provincial and federal regulations.

**Large Spills:** Large spills should be contained, and if not recoverable, then diluted with water or flushed to holding area and neutralized with soda ash or lime. Do not allow hydrochloric acid waste to be discharged direct to sewer or sources of water. Use a water rinse for final clean-up.

### SECTION 7: HANDLING AND STORAGE

**Handling:** Use only as directed. Avoid any contact with eyes, skin and clothing. When using, do not eat or drink.

**Storage:** Store in a cool, dry and well-ventilated area. Always keep the container closed when not in use. KEEP OUT OF REACH OF CHILDREN AND PETS.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Household Setting

**Eyes Protection** – No special requirements under normal use conditions.

**Hand Protection** – Use gloves for prolonged exposure.

**Footwear** – No special requirements under normal use conditions.

**Respiratory protection** – Not normally required.

#### Industrial Setting

**Eyes Protection** – Wear splash-resistant, full-face shield chemical goggles.

**Hand Protection** – Use suitable gloves.

**Footwear** – Impervious boots of chemically resistant material should be worn at all times.

**Respiratory protection** – At concentrations upto 50 ppm, chemical charge respirator or air-purifying respirator is recommended. Above this level, a full face self-contained breathing apparatus is required.

## MURIATIC ACID, 20 BAUME

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Appearance	: Colorless or slightly yellow liquid
Color	: Colorless or slightly yellow, fuming liquid
Odor	: Pungent odor
pH	: < 1
Specific Gravity	: 1.16 – 1.19 (water = 1)
Viscosity	: Water thin
Water Solubility	: Complete
Boiling Point	: 181°F (31%)
Melting Point	: no data available
Freezing point	: no data available

### SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and storage conditions.

**Conditions to avoid:** Temperature above 40°C, sunlight and metals.

**Materials to avoid:** DO NOT MIX WITH BLEACH or with other household products containing bases and/or acids, metals, phosphines, acetylides, borides, carbides, silicides, vinyl acetate, formaldehyde, cyanides, sulphides, rust removers, urea or ammonia producing hazardous gases such as chlorine and other chlorinated species.

**Reactivity:** Reacts violently with strong oxidizing agents, acetaldehyde, and acetic anhydride. Material can react with metals, strong bases, amines, carbonates, hydroxides, phosphates, many oxides, cyanides, sulfides, chromic acid, perchloric acid, permanganates, xylene, oleum, potassium hydroxide, sodium hydroxide, phosphorus isocyanate, ethylenediamine, ethyleneimine.

### SECTION 11: TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity** : LC<sub>50</sub> (mist exposure, rat) 30min: 5,666ppm

**Acute dermal toxicity** : LD50 (oral, rabbit): 900mg/kg

**Chronic toxicity** : Prolonged exposure can cause erosion and discoloration of teeth and chronic inflammation of nose, throat and airways. Repeated or prolonged contact to dilute solutions can cause dermatitis.

**Carcinogenic Effects** : Not considered to be carcinogenic by IARC, NTP and ACGIH

**Mutagenic Effects** : None Known

**Reproductive Toxicity** : None Known

---

## MURIATIC ACID, 20 BAUME

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity effects** : Extremely toxic to aquatic life by lowering the pH below 5.5. Dissociates in water and will be neutralized by naturally occurring alkalinity and carbon dioxide. Acid will permeate soil, dissolving soil material and will be neutralized somewhat.

### SECTION 13: DISPOSAL CONSIDERATIONS

Reclaim or dispose in accordance with federal, provincial and local regulations.

### SECTION 14: TRANSPORTATION INFORMATION

#### U.S. DOT and Canadian TDG land Transportation

Class 8: Corrosive material  
UN Number: 1789  
Proper Shipping name: Hydrochloric Acid  
Packaging group: II  
Marine pollutant: No

#### IMDG Sea Transport

Class 8: Corrosive material  
UN Number: 1789  
Proper Shipping name: Hydrochloric Acid  
Packaging group: II  
Marine pollutant: No

### SECTION 15: REGULATORY INFORMATION

**TSCA/DSL Status:** All components in this product are on the U.S. TSCA and Canadian DSL.

**WHMIS (Canada):** Class D-2A: Material causing other toxic effects (Very toxic). Class E: Corrosive Liquid.

---

## MURIATIC ACID, 20 BAUME

### SECTION 16: OTHER INFORMATION

**HMIS Ratings**

Health	: 3
Flammability	: 0
Reactivity	: 1

**NFPA Ratings**

Health	: 3
Flammability	: 0
Reactivity	: 1

---

As the handling and use of this product are beyond our control, no warranty, expressed or implied is made concerning this product. The information contained here is offered only as a guide and is not intended to be all-inclusive in the manner and conditions of use and handling. The user assumes all risks of use or handling whether or not in accordance with any directions or suggestions of the manufacturer. Manufacturer shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our product.