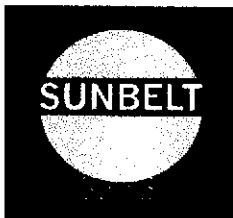


MATERIAL SAFETY DATA SHEET

Section I - Product Identification



MURIATIC ACID, (hydrochloric acid)
Part Number 118

EMERGENCY CALL: CHEMTREC @ 1-800-424-9300

SUNBELT CHEMICALS
71 HARGROVE GRADE
PALM COAST, FL. 32137-5101
PHONE: (904) 446-4595

Section II - Hazardous Components

<u>INGREDIENT</u>	<u>CAS #</u>	<u>% BY WEIGHT</u>	<u>EXPOSURE LIMITS</u>	
			<u>PEL</u>	<u>TLV</u>
Hydrochloric acid	7647-01-0	32.5	5 ppm	5 ppm
None of the ingredients of this product are on the NTP, IARC, or OSHA list of carcinogens.				

Section III - Physical Data

APPEARANCE: Clear to slightly yellow liquid, with stinging, pungent odor.

VAPOR DENSITY: 1.3 (air = 1) **VAPOR PRESSURE:** 10 mm Hg @ 68°F **DENSITY:** 9.69 lbs./gal

SOLUBILITY: 100 % **SPECIFIC GRAVITY:** 1.162 (approx.) **pH:** < 2.0

PERCENT VOLATILE: 100 % **BOILING POINT:** 170°F (approx.) **EVAPORATION RATE:**

Section IV - Health Hazard Data

PRIMARY ROUTES OF ENTRY: Skin and eye contact, inhalation, ingestion.

ACUTE INHALATION: Inhalation of low concentrations can cause burning of the throat, coughing, and choking. At higher levels, exposure may cause inflammation and ulceration of the nose, throat, or larynx, bronchitis, pneumonia, and headache. Severe exposure may cause destruction of tissue, emphysema and damage to pulmonary blood vessels.

CHRONIC INHALATION: Repeated overexposure may cause erosion and discoloration of the exposed teeth, chronic bronchitis and inflammation of the stomach. **DO NOT BREATHE VAPORS OR MISTS**

EYES: Contact may cause severe irritation, conjunctivitis, destruction of corneal tissue, burns, and possibly blindness, in severe cases. **DO NOT GET INTO EYES**

SKIN: Contact may cause severe irritation, inflammation, ulceration, tissue destruction and chemical burns. Repeated contact may cause chronic irritation, and dermatitis. **DO NOT GET ON SKIN**

FIRST AID MEASURES:

INGESTION: Ingestion may cause burns to the mouth, throat, esophagus, and stomach, with pain, nausea, salivation, vomiting, diarrhea, chills, shock, and intense thirst. Inflammation to the kidneys, fever, and perforation of the intestinal tract, and circulatory collapse can occur. **DO NOT INGEST**

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, start artificial respiration. **SEEK MEDICAL ATTENTION**

EYE CONTACT: Flush eyes with large volumes of running water, for at least 15 minutes, while lifting eyelids and rolling eyes. If irritation persists, **SEEK MEDICAL ATTENTION**

SKIN CONTACT: Wash exposed area with soap and water. Remove contaminated clothing. If irritation persists, **SEEK MEDICAL ATTENTION**

INGESTION: Immediately drink two glasses of water. Never give anything, by mouth, to an unconscious person. **SEEK MEDICAL ATTENTION IMMEDIATELY**

Section V - Fire and Explosion Data

NFPA RATINGS:

Health - 3

Flammability - 0

Reactivity - 1

FLASH POINT: N/A

IGNITION TEMPERATURE: N/A

UPPER FLAMMABLE LIMIT: N/A

LOWER FLAMMABLE LIMIT: N/A

This product is non-combustible. Water may be used to keep fire exposed containers cool. Upon contact with certain metals, this product may cause the liberation of hydrogen gas. Hydrogen gas is flammable and may ignite violently in sufficient concentration.

Section VI - Reactivity

This product is stable under normal use conditions. Hazardous polymerization cannot occur.

This product is incompatible with alkaline materials.

Upon contact with certain metals this product may cause the liberation of hydrogen gas.

Do not use this product on metallic surfaces.

Section VII - Spill and Leak Procedure

Prevent run-off from reaching sewers, streams and other bodies of water. Notify proper authorities if a large spill occurs. Absorbent barrier material may be used to absorb small spills. Larger spills may be contained with barrier materials and neutralized before pumping to drums or tanks for disposal. This material may be neutralized with soda ash, lime, or other caustic materials. Dispose of this material, and contaminated absorbents in accordance with applicable Federal, State, and Local regulations.

Section VIII - Handling and Storage

Transport, handle and store in accordance with OSHA 29 CFR 1910.106 and applicable DOT regulations. This product is classified as a corrosive liquid, specifically, hydrochloric acid.

DOT Hazard Class 8, Corrosive Liquid

ID # UN-1789

ERG # 157

Section IX - Precautionary Statements

WARNING CORROSIVE

VAPOR HARMFUL

HARMFUL OR FATAL IF SWALLOWED

FOR INDUSTRIAL USE ONLY

MAY CAUSE IRRITATION OR BURNS TO SKIN AND EYES

Keep container closed when not on use. Avoid contact with skin and eyes, wear chemical splash goggles and gloves to prevent contact. Use only in well ventilated areas. Avoid prolonged breathing of vapor or mist. Keep head away from container opening when dispensing. Wash thoroughly after handling, and before eating or smoking.

Section X - References

Code of Federal Regulations - Department of Transportation

Code of Federal Regulations - Environmental Protection Agency

Code of Federal Regulations - Occupational Safety and Health Administration

NIOSH/OSHA Guidelines for Chemical Hazards

Florida Statutes, Chapter 442, Worker Right-To-Know