Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY

RC-39 DELIMER (110072)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufactured For:	Emergency Telephone Number
Beaver Research Company	1-800-544-0133
Address (Number, Street, City, State, and ZIP Code)	Telephone Number For Information
3700 E. Kilgore Road, Portage, MI 49002	269-382-0133

HMIS RATINGS:		Last Revision Date
0=Minimal 3=Serious	Health: 3	
1=Slight 4=Severe	Flammability: 0	01/31/2008
2=Moderate	Reactivity: 0	Signature of Preparer (optional)
	Personal Protection: D	

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	TLV	Carcinogen (OSHA,TP,IARC)	% (optional)
Hydrochloric Acid	7647-01-0	5 ppm	None	>25%

Reportable for SARA Title III, S.313 (Form R): Hydrochloric Acid.

Section III - Physical/Chemical Characteristics

Boiling Point	EST 180°F	Specific Gravity (H_2O = 1)	1.13
Vapor Pressure (mm Hg)	39 (75°F)	Melting Point	N/A
Viscosity	Water Thin	VOC Content	None
Solubility in Water		pH	<1
Complete			

Appearance and Odor

Brown liquid, muriatic odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
None	N/A	N/A	N/A

Extinguishing Media

N/A (Product is non-flammable)

Special Fire Fighting Procedures

Avoid skin and eye contact, and breathing of acid vapors. Wear head and body protection and HCl respirator if exposure to liquid is likely.

Unusual Fire and Explosion Hazards

None known.

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	None known.
	Stable	X		

Incompatibility (Materials to Avoid)

Strong alkalies, materials not resistant to strong acids, active metals (zinc, aluminum, magnesium, etc.)

Hazardous Decomposition or Byproducts

Hydrogen chloride vapors. Contact with active metals can release flammable hydrogen gas.

Hazardous	May Occur		Conditions to Avoid	None known.
Polymerization	Will Not Occur	X		

Section VI - Health Hazard Data

Most Likely Route(s) of Entry:	Inhalation?	Skin?	Eyes?	Ingestion?
	Yes	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Inhalation: Breathing of vapor can cause respiratory irritation and inflammation. Breathing of mist or liquid can cause burns. **Skin**: Corrosive. Causes irritation and burns. **Eyes**: Corrosive. Causes eye damage. **Ingestion**: Corrosive. Causes irritation and burning in mouth, esophagus, throat and stomach. Avoid swallowing.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	N/A	N/A	N/A

Signs and Symptoms of Exposure

Overexposure to product has the following effects: Inhalation of vapors may cause pulmonary edema, collapse of circulatory system and damage to the upper respiratory system and collapse. Inhalation may cause coughing, throat burning, choking, bronchitis and difficult breathing. Ingestion is harmful and may be fatal. Ingestion may cause burns.

Medical Conditions Generally Aggravated by Exposure

None known.

Emergency and First Aid Procedure

Inhalation: Remove to fresh air. Give artificial respiration or oxygen if needed. Get prompt medical attention. **Skin**: Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes. Get medical attention if burns persist. **Eyes**: Provide convenient eyewash stations. Flush immediately with water for 15 minutes. Get prompt medical attention. **Ingestion**: Drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Small spills can be flushed into normal drainage or into ground with copious amounts of water or taken up with absorbent material. Larger spills should be contained by diking or other methods and held for collection and/or reuse, or for neutralization with alkali before collection and disposal. Personnel should use eye and skin protection and respirator.

Waste Disposal Method

If neutralized, may be disposable in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility. As supplied, this product is a RCRA hazardous waste.

Precautions to be Taken in Handling and Storage

Check daily for any leaks from containers, vessels, pumps and piping. Have water hoses and alkali (caustic soda, lime, etc.) convenient. Only use containers and equipment designed for acid service.

Other Precautions

Areas of use and storage should be ventilated adequately to reduce vapors below odor level. Empty containers: Rinse well before handling and disposal.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Wear approved HCl vapor/mist respirator if exposure is likely.

Ventilation				
	Local Exhaust	Yes	Special	N/A
	Mechanical(General)	Adequate	Other	N/A

Protective Gloves	Eye Protection
Wear acid-resistant protective gloves.	Wear splash-proof goggles.

Other Protective Clothing or Equipment

Wear acid-resistant boots and clothing.

Work/Hygienic Practices

Provide convenient safety showers and eyewash stations.

N/A=Not Applicable