

SAFETY DATA SHEET

Issue date: September 5th, 2017

Lactic Acid 88%

SDS No: 1112 Page 1.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lactic Acid 88%
 Product Code: 1112
 Product Description: Liquid Acid Cleaner
 Manufactured by: Enviro-Brite Solutions, LLC
 Address: 5606 F-41
 Telephone Number: 989-387-2758 8:00 am – 5:00 pm
EMERGENCY TELEPHONE NUMBER: 989-387-2758 24 hours



2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous component * (see note below)	Cas No.	Exposure Limits % by wt.	OSHA PEL	ACGIH TLV	NIOSH REL
* Lactic acid	79-33-4	87-89	1 mg/m3 TWA 3 mg/m3 STEL	1 mg/m3 TWA 3 mg/m3 STEL	1 mg/m3 TWA 3 mg/m3 STEL

Asterisked ingredients are those considered hazardous according to the criteria of OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200). Other ingredients are listed for informational purposes at assist medical response personnel.

3. HAZARDS IDENTIFICATION

Emergency Overview	Causes severe chemical burns. Harmful or fatal if swallowed. Eye contact may cause blindness. Vapors irritating to respiratory tract.
Potential Health Effects	Listed below.
Ingestion	Corrosive. Causes burns to mouth, throat & stomach. May be fatal if swallowed
Inhalation	Vapors harmful or irritating if inhaled. Symptoms include a burning taste, sneezing, coughing and difficulty breathing.
Eye contact	Corrosive. Causes permanent eye damage, including blindness.
Skin Contact	Severely irritating to skin; can cause chemical burns.

4. FIRST AID MEASURES

INGESTION	If swallowed, rinse mouth, drink a large quantity of water or milk. Then Immediately contact a physician or Poison Center. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
INHALATION	If exposed to excessive levels of vapors, remove to fresh air and get medical attention if cough or other symptoms develop. People with asthma or other lung problems may be more susceptible to injury.
EYE CONTACT	Immediately flush eye with plenty of cool, running water for 15 minutes. . Use buffered eye solutions if available. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of entire eye. Get medical attention immediately.
SKIN CONTACT	Flush skin with plenty of warm running water for 15minutes. Wash with soap and water. If irritation develops or persists, get medical attention. Remove contaminated clothing and shoes; wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Commercial Clinical Toxicology of Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland. See listing for Acid in Therapeutics Index, Section III.

5. FIRE FIGHTING MEASURES

Flash Point / Method	None / N.A.	Flammable Limits	Not flammable or Combustible
Extinguishing Media	Use dry chemical, Co2, foam or water spray		
Special Fire Fighting Procedures	None.		
Fire and Explosion Hazards	None.		

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Flush to sanitary sewer. Mop up residual and rinse area thoroughly with water.
 Large Spills: Dike or dam spill. Soak up with inert absorbent material. Unused product as a waste is corrosive (d002) by RCRA criteria.

7. HANDLING AND STORAGE

Handling Precautions	Always add acids to water when diluting. Keep container tightly closed when not in use.
Storage Precautions	Protect from freezing. Store upright in a cool dry place. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hygienic Practices	Observe label precaution. Use personal protective equipment. Avoid breathing mists or vapors. Handle in accordance with good industrial hygiene.
Engineering Controls	Local exhaust ventilation may be necessary during prolonged use conditions. Facilities using this product should be equipped with an eyewash station.

Personal Protective Equipment

* Respirator	Respiratory protection recommended where vapor concentrations are high.
* Goggles/face shield	Required. Goggles should be chemical splash type.
* Apron	Recommended to protect skin and clothing.
* Gloves	Required. Use PVC, Neoprene or Nitrile with protective cuff.
Boots	Not necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear yellow liquid	Boiling Point	> 212 deg F
Odor	Bland	Freezing Point	Not established
PH	1.0 (100% concentrate)	Vapor Pressure	Not established
Specific Gravity	1.12 g/gal	Vapor Density	Not established
Solubility in Water	Complete	Evaporation Rate	Not determined
VOC content	None		

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Do not mix with anything but water.

INCOMPATIBILITY WITH OTHER MATERIALS: Alkalis, soft metal, chlorine or bleach, oils or any other detergents.

HAZARDOUS DECOMPOSITION PRODUCTS: None expected

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

Carcinogenicity

	This product contains a known or suspected Carcinogen.
X	This product does not contain any known or anticipated carcinogens according to the criteria Of the NTP annual report on carcinogens and OSHA 29 CFR 1910, Z

Other Effects

Acute	None known.
Chronic	None known.

12. ECOLOGICAL INFORMATION

Biodegradability	X	Considered Biodegradable	
BOD Value			Not established
Ecotoxicity			No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Product that cannot be used according to the label must be disposed of as a hazardous waste at an approved hazardous waste management facility. Empty containers may be triple rinsed and offered for recycling.
RCRA Classification	Hazardous D002

14. TRANSPORT INFORMATION

Regulatory Information	UN number	Proper Shipping name	Class	Packing Group	Additional Information
Dot Classification	UN3265	Lactic Acid, solution	8	III	

15. REGULATORY INFORMATION

	EPA Registered	None
	FDA Regulated	None
X	Kosher	None
X	SARA Title III Material	None
X	USDA Authorized	Category A3
X	EPA/DPE	None

16. OTHER INFORMATION

NFPA Classification

2	Blue	Health Hazard
0	Red	Flammability
1	Yellow	Reactivity
--	White	Special Hazard

This information refers only to the specific material designated and does not relate to the involving of other material. This information is based on data believed to be reliable, and the Product is intended to be used in the manner that is Customary and reasonable. Since actual use and handling is beyond our control, no warranty, express or implied, is made and no liability is assumed by Enviro-Brite Solutions LLC in connection with the use of this information.