

9/25/2006

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MATERIAL SAFETY DATA SHEET

BIRKO Corporation

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Lactic Acid**
 Product Code: I00071

Distributed By

BIRKO Corporation
 9152 Yosemite Street
 Henderson, CO 80640
 (303) 289-1090
 www.birkocorp.com

Emergency Phone Numbers

Transportation: CHEMTREC (800) 424-9300
 Non-Transportation: BIRKO (303) 289-1090
 (800) 525-0476

Manufactured By:
 Purac America, Inc

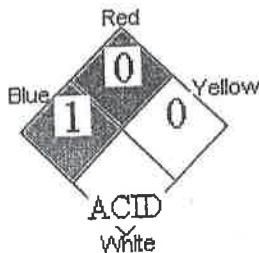
2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component	Percent	Exposure Limit
00079-33-4	Lactic Acid	88	PEL None

3. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form Liquid
 Color Colorless-yellow
 Odor Characteristic
 Boiling Point 250° F
 Freeze Point 62° F
 Water Solubility Complete
 Specific Gravity 1.2
 Vapor Pressure 30mm @ 20° C
 Vapor Density > 1
 Evaporation Rate < 1

NFPA Ratings



Blue - Health Hazard

4 - Deadly
 3 - Extreme Danger
 2 - Hazardous
 1 - Slightly Hazardous
 0 - Insignificant Hazard

Red - Fire Hazard

4 - Flash Point < 73°F
 3 - Flash Point > 73°F and < 100°F
 2 - Flash Point > 100°F and < 200°F
 1 - Flash Point > 200°F
 0 - Noncombustible

Yellow - Reactivity

4 - May Detonate
 3 - Shock or Heat may Detonate
 2 - Violent Chemical Change
 1 - Unstable If Heated
 0 - Stable

White - Specific Hazard

ACID - Acid
 ALK - Alkali
 COR - Corrosive
 OXY - Oxidizer
 P - Polymerization
 ^ - Radioactive
 W - Use No Water

4. FIREFIGHTING MEASURES

Flash Point Not Applicable

Extinguishing Media Water, Carbon Dioxide, Dry Chemical, Foam Blanket

Special Procedures Always wear self-contained breathing apparatus when fighting a chemical fire.

Unusual Fire/Explosion Hazard Carbon Monoxide / Carbon Dioxide gases (toxic) liberated during combustion.

5. REACTIVITY

Stability This product should maintain its physical character when stored closed at moderate temperatures, between 28 °F and 105 °F.

Hazardous Polymerization This product does not polymerize under normal storage and use conditions.

Incompatible Materials Chlorine Compounds, Cyanides, Amphoteric Metals (Aluminum, Brass, Copper, Tin, Zinc), Strong Alkali

Decomposition Products Carbon Monoxide / Carbon Dioxide gases (toxic) liberated during combustion.

HMIS

0	FLAMMABILITY
2	HEALTH
0	REACTIVITY
B	Personal Protection

Hazard Index

4 - Severe
3 - Serious
2 - Moderate
1 - Slight
0 - Minimal

Personal Protective Index

A		E		I	
B		F		J	
C		G		K	
D		H		X Ask your supervisor	

Safety Glasses  Face Shield  Splash Goggles  Airline Hood or Mask  Gloves  Synthetic Apron  Dust Respirator  Vapor Respirator  Dust + Vapor Respirator  Full Suit  Boots

6. POTENTIAL HEALTH EFFECTS

Routes of Entry Eye contact, Skin contact, Inhalation, Ingestion

Acute / Chronic Inhalation This product and its solutions, in mist form will strongly irritate mucosal membranes, bronchial passages, and lung tissue.

Acute / Chronic Skin Contact If allowed to remain on skin for extended periods of time irritation may occur.

Acute / Chronic Eye Contact Irritates on contact. Corneal damage possible with extended exposure.

Ingestion Causes burns of gastrointestinal tract. Harmful or fatal if swallowed.

7. FIRST AID MEASURES

Inhalation Remove from exposure. Administer oxygen if breathing is difficult. Resuscitate if necessary. Get medical help immediately.

Skin Contact Promptly Rinse exposed areas with water. Do not wear contaminated clothing until it has been laundered. If irritation persists, consult physician.

Eye Contact Immediately rinse eyes thoroughly in cool running water for at least 15 minutes. If irritation persists, or inflammation or swelling occurs, seek medical attention.

Ingestion DO NOT induce vomiting. Have a conscious victim drink milk or water to dilute. Never give an unconscious person anything by mouth. Get medical help immediately.

8. ACCIDENTAL RELEASE MEASURES

Avoid contamination of food, feed, waterway, or groundwater. If possible, capture material and contain for re-use or disposal. Alternatively, absorb into earth, clay, sawdust, or commercial absorbent, and contain for disposal. Remainder may be neutralized with baking soda (some Carbon Dioxide gas will evolve) or lime, then rinsed to a sewer.

9. WASTE DISPOSAL CONSIDERATIONS

Dispose in approved landfill according to Federal, State, and Local Regulations.

10. HANDLING AND STORAGE

Do not contaminate food, feed, or natural water. Keep container closed when not in use. Store in a cool, dry location. Supplier not responsible for disposition of this product. Do not reuse container.

NOTE: Lactic acid is stable in aqueous solutions up to 329°F. Discoloration may occur at high temperatures or with extended storage. Recommend storage between 50-100°F.

11. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection Safety Glasses

Skin Protection Impermeable Gloves. Wash exposed areas after handling.

Respiratory Protection NIOSH approved self contained breathing apparatus for exposure above PEL.

Ventilation General exhaust acceptable if PEL not exceeded.

12. TSCA CERTIFICATION

Birko Corporation certifies that all ingredients in this chemical formulation comply with all applicable rules or orders under TSCA and that we are not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.

13. APPROVALS

Reason for Issue Amendments
Prepared By Terry McAninch, Chemist
Approved By Mike S. Brown
Title Chief Operating Officer
Supercedes Date 9/19/2006
MSDS Number I00071