FLIMM SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 184.00

Revision Date: March 14, 2001

Section 1 — Chemical Product and Company Identification

Butyric Acid

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Butyric Acid

CAS#: 107-92-6

Section 3 — Hazards Identification

Oily, colorless liquid with pungent, very obnoxious odor.

Strong irritant to body tissue; stench agent. Moderately toxic by ingestion. Avoid all body contact.

Flammable liquid. Use only in a fume hood.

Flammability-2 Reactivity-1 Exposure-3 Storage-2

Health-2

0 is low hazard, 3 is high hazard

FLINN AT-A-GLANCE

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Flammable liquid. NFPA Cope

When heated to decomposition, emits acrid smoke and irritating fumes.

H-2

Flash Point: 170 F Upper: 10% Lower: 2% Autoignition Temperature: 824 F

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE R-0

and SCBA with full facepiece operated in positive pressure mode.

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and absorbent material, neutralize with sodium bicarbonate or calcium hydroxide and deposit in sealed bag or container. Washing with clove oil can sometimes reduce stench. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn suggested chemical storage pattern: Organic #1. Store with acids, anhydrides and peracids. Store in a cool dry place. Store inside a Flinn Chem-Saf Bag, then inside a Flinn Saf-Stor Can. Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use ventilation to keep airborne concentrations and low exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

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Section 9 — Physical and Chemical Properties

Oily, colorless liquid with pungent, obnoxious odor.

Solubility: Soluble in water, miscible in alcohol.

Formula: CH3CH2CH2COOH Formula Weight: 88.12

Specific Gravity: 0.96

Section 10 — Stability and Reactivity

Avoid open flame; sources of heat.

Avoid contact with bases, oxidizers and reducing agents.

Shelf life: Indefinite if stored properly.

Section 11 — Toxicological Information

Acute effects: Toxic, corrosive

Chronic effects: N.A. Target organs: N.A.

ORL-RAT LD50: 2 gm/kg IHL-RAT LC50: N.A. SKN-RBT LD50: 530 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations. Flinn Suggested Disposal Method #24a is one option.

Section 14 — Transport Information

Shipping Name: Butyric Acid Hazard Class: 8, Corrosive UN Number: UN2820 N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (203-532-3), RCRA code D002.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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