FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 2.00

Revision Date: March 7, 2001

Section 1 — Chemical Product and Company Identification

Acetaldehyde

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

Acetaldehyde

Synonyms: acetic aldehyde; ethyl aldehyde

CAS#: 75-07-0

Section 3 — Hazards Identification

Colorless liquid. Pungent and intense fruity odor.

Moderately toxic by ingestion, inhalation, and skin absorption. Possible carcinogen.

Severely irritating to skin and eyes. Avoid all body contact.

Class IA flammable liquid.

FLINN AT-A-GLANCE

Health-2 Flammability-3 Reactivity-2 Exposure-2 Storage-3

0 is low hazard, 3 is high hazard

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 and mild liquid soap for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Class IA Flammable liquid.

Flash point -40 F (0 C), Flammable limits: LEL: 4%, UEL: 60%, AIT: 347 F

H-2

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

and SCBA with full facepiece operated in positive pressure mode.

R-2

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, esters and aldehydes. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor can. Use and dispense in a hood.

<u>Section 8 — Exposure Controls , Personal Protection</u>

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use ventilation to keep airborne concentrations below 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). Exposure guidelines: TWA 200 ppm (OSHA)

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Section 9 — Physical and Chemical Properties

Colorless liquid, pungent and intense fruity odor. Solubility: Miscible with water and alcohol.

Formula: CH3CHO Formula Weight: 44.1 Melting Point: -123.5 C Boiling Point: 21 C Specific Gravity: 0.7791 Vapor Pressure: 740 mm @ 68 F

ORL-RAT LD50: 661 mg/kg

IHL-RAT LC50: 37 g/m3/30m SKN-RBT LD50:3540 mg/kg

Vapor Density: 1.52

Section 10 — Stability and Reactivity

Avoid contact with acids and bases, strong oxidizers, alcohols, ammonia, and any source of ignition.

Prolong contact with air may cause formation of peroxides.

Shelf Life: Stores well if kept cool.

Section 11 — Toxicological Information

Acute effects: lacrymator, severe eye irritant

Chronic effects: pulmonary edema, possible carcinogen, teratogen

and mutagen.

Target organs: liver, kidneys, lungs, blood and nervous system

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 before disposal.

Flinn Suggested Disposal Method #2 is one option.

Section 14 — Transport Information

Shipping Name: Acetaldehyde Hazard Class: 3, Flammable liquid

UN Number: UN1089 N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (200-836-8). RCRA code U001

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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