SDS #: 2.00

Revision Date: December 13, 2013

Pictograms

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

Signal Word DANGER

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 1). Extremely flammable liquid and vapor (H224). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Acute toxicity, dermal and inhalation (Category 5). May be harmful if inhaled or in contact with skin (H313+H333).

Hazard class: Serious eye damage or irritation (Category 2A). Causes serious eye irritation (H319).

Hazard class: Carcinogenicity (Category 2). Suspected of causing cancer (H351). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Acetaldehyde	75-07-0	CH ₃ CHO	44.05	
Synonyms: Acetic aldehyde, Ethyl aldehyde				

SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Call a POISON CENTER or physician if you feel unwell (P304+P312).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).

SECTION 5 — FIRE FIGHTING MEASURES

Class IA flammable liquid.	NFPA CODE
Flash point 0 °C Flammable limits: LEL: 4% UEL: 60% Autoignition Temperature: 175 °C	H-2
When heated to decomposition, may emit toxic fumes.	F-4
In case of fire: Use tri-class dry chemical fire extinguisher (P370+P378).	R-2

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material and deposit in a 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-StorTM can. Use only in a hood. Keep container tightly closed (P233). Keep cool (P235). Ground or bond container and receiving equipment (P240). Use explosion-proof electrical and ventilating equipment (P241). Use only non-sparking tools (P242).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Use only in a hood. Exposure guidelines: PEL 200 ppm (OSHA) Ceiling 25 ppm (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid. Pungent and intense fruity odor. Soluble: Miscible with water and alcohol.

Boiling point: 21 °C Melting point: -123.5 °C Specific gravity: 0.7791 Vapor density: 1.52 Vapor pressure: 740 mm

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: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Lachrymator, severe eye irritant. Chronic effects: Pulmonary edema, possible carcinogen (IARC -2B), teratogen, and mutagen. Target organs: Liver, kidneys, lungs, blood, and nervous system. ORL-RAT LD₅₀: 661 mg/kg IHL-RAT LC₅₀: 37 g/m³/30m SKN-RBT LD₅₀: 3540 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 review all federal, state and local regulations that may apply before proceeding. 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

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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