SDS #: 2.00 **Revision Date:** May 21, 2014

DANGER

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

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

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the 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. Cool container before opening, open the bottle slowly while wearing proper PPE. Keep container tightly closed (P233). Keep cool (P235). Use explosion-proof electrical and ventilating equipment (P241).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands 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, alcohol and many organic solvents. 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. May form explosive levels of peroxides on concentration.

Shelf life: Stores well only if kept cool. Do not store in a refrigerator unless it is explosion proof.

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

This Safety Data Sheet (SDS) 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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. Revision Date: May 21, 2014

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