

FLINN

SCIENTIFIC

SDS #: 2

Revision Date: March 22, 2016

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Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Acetaldehyde

Signal Word
DANGER

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9335

Pictograms

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

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust or fumes (P261).

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

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

NFPA Code

H-2

F-4

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-Stor™ 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.

Boiling point: 21 °C

Soluble: Miscible with water, alcohol and many organic solvents.

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.

ORL-RAT LD₅₀: 661 mg/kg

Chronic effects: Pulmonary edema, possible carcinogen (IARC-2B), teratogen, and mutagen.

IHL-RAT LC₅₀: 37 g/m³/30m

Target organs: Liver, kidneys, lungs, blood, and nervous system.

SKN-RBT LD₅₀: 3540 mg/kg

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.

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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

N/A = Not applicable

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

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