# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #:** 2.00

Revision Date: May 21, 2014

# 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

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: 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	CH₃CHO	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.	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 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.

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# **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<sup>TM</sup> 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

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# **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 LD<sub>50</sub>: 661 mg/kg IHL-RAT LC<sub>50</sub>:  $37 \text{ g/m}^3/30\text{m}$ 

SKN-RBT LD<sub>50</sub>: 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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