

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 332.00

Revision Date: March 21, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FAA Solution

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 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Hazard class: Acute toxicity, inhalation (Category 4). Harmful if swallowed or inhaled (H302 and H332).

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). Use personal protective equipment as required (P281). Formaldehyde is a known human carcinogen (IARC-1).

Hazard class: Specific target organ toxicity, repeated exposure (Category 1). Causes damage to organs (H372). Do not eat, drink or smoke when using this product (P270). Do not breathe mist, vapors or spray (P260).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Formaldehyde	50-00-0	HCHO	30.03	2%
Acetic acid	64-19-7	CH ₃ COOH	60.05	5%
Ethyl alcohol, denatured	64-17-5	C ₂ H ₅ OH	46.07	55%
Water	7732-18-5	H ₂ O	18.00	38%
Synonym: Formalin-aceto-alcohol solution				

SECTION 4 — FIRST AID MEASURES

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

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

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 IC flammable liquid due to ethyl alcohol content.

Flash point: 24 °C

When heated, releases flammable fumes.

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

NFPA Code

H-2

F-3

R-0

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 #2. Store with alcohols, glycols, amines and amides.

Store in a Flinn Chem-SafTM bag. Keep container tightly closed (P233). Keep cool (P235). Use only in a hood or well-ventilated area (P271).

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 or well-ventilated area (P271). In case of inadequate ventilation, wear respiratory protection (P285). **Exposure guidelines:** (as formaldehyde) TLV-C 0.3 ppm (ACGIH); PEL 0.75 ppm (OSHA). **Odor threshold** 0.05 - 1 ppm. If the odor of formaldehyde is detected more ventilation is needed.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid. Pungent odor.

pH: acidic

Hazardous materials: formaldehyde, acetic acid, ethyl alcohol.

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with sources of ignition or open flames.

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe eye irritant, sensitizer.

ORL-RAT LD₅₀: 100 mg/kg (as formaldehyde)

Chronic effects: Pulmonary edema, carcinogen, mutagen.

IHL-RAT LC₅₀: 203 mg/m³ (as formaldehyde)

Target organs: Eyes, kidneys. Effects may be delayed.

SKN-RBT LD₅₀: 0.27 mL/kg (as formaldehyde)

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 #18b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Ethyl alcohol solution. Hazard class: 3, Flammable liquid. UN number: UN1170.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

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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