

Section 1 — Chemical Product and Company Identification

Formaldehyde

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Formaldehyde (50-00-0) 37%, Methyl Alcohol (67-56-1) 6-15%, Water (7732-18-5) 48-57%.

Synonym: Formalin

CAS#: 50-00-0

Section 3 — Hazards Identification

Colorless liquid; pungent odor.

Highly toxic by ingestion, inhalation, and skin absorption; severe body tissue irritant. Avoid all body contact. Formaldehyde vapor is a probable carcinogen to humans.

FLINN AT-A-GLANCE

Health-3

Flammability-1

Reactivity-2

Exposure-3

Storage-0

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Class IIIA combustible liquid.

When heated to decomposition, emits smoke and fumes. Suspected carcinogen.

Flash Point: 133 F Upper: 73% Lower: 7% Autoignition Temperature: 572 F

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-3

F-2

R-0

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in 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.

Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 0.016 ppm (NIOSH)

Section 9 — Physical and Chemical Properties

Colorless liquid; pungent odor.
Solubility: Soluble: water and alcohol.
37% Formaldehyde gas in water.
Formula: HCHO
Formula Weight: 30.03

Specific Gravity: 1.1
Flash Point: 50 C (122 F)

Section 10 — Stability and Reactivity

Avoid contact with strong acids, strong bases, strong oxidizers.
Shelf Life: Fair. Slowly polymerizes to polyformaldehyde.

Section 11 — Toxicological Information

Acute effects: Highly toxic, severe eye irritant, sensitizer
Chronic effects: Pulmonary edema, carcinogen, mutagen
Target organs: Eyes, kidneys. Effects may be delayed.

ORL-RAT LD50: 100 mg/kg
IHL-RAT LC50: 203 mg/m³
SKN-RBT LD50: 270 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 consult with state and local regulators before disposal.
Flinn Suggested Disposal Method #2 is one option.

Section 14 — Transport Information

Shipping Name: Formaldehyde, solutions
Hazard Class: 8, Corrosive
UN Number: UN2209

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (200-001-8), RCRA code U122.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) 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. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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