

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 353.00

Revision Date: December 7, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Formalin

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) 3.7%, Methyl alcohol (67-56-1) 1.5%, Sodium phosphate monobasic (10049-21-5) <0.5%, Sodium phosphate dibasic anhydrous (7558-79-4) <1%, & water (7732-18-5) >93.3%.

CAS#: None established

SECTION 3 — HAZARDS IDENTIFICATION

Clear, colorless solution. Pungent formaldehyde odor.

Formaldehyde is a known human carcinogen (IARC-1). Contains methyl alcohol.

Irritant to body tissues. Moderately toxic by ingestion, inhalation, and skin absorption. Avoid contact with skin, eyes, and mucous membranes.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-1

Exposure-3

Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and 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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable liquid. Contains methyl alcohol which may produce flammable vapors when heated.

NFPA CODE

None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area and ventilate area. Contain the spill with sand or 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.

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 apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a PAPR when handling this material in emergency situations (spill or fire). **Odor threshold** formaldehyde 0.05 - 1 ppm. If the odor of formaldehyde is detected more ventilation is needed. Exposure guidelines: TWA 0.016 ppm (NIOSH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid.
Neutral and buffered.

Biological use: tissue fixative.

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong acids, strong bases, and strong oxidizers.
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

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

ORL-RAT LD₅₀: 100 mg/kg as formaldehyde
IHL-RAT LC₅₀: 203 mg/m³ as formaldehyde
SKN-RBT LD₅₀: 270 mg/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 #2 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: N/A
Hazard class: N/A
UN number: N/A
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.**