

MATERIAL SAFETY DATA SHEET

MANUFACTURER: ROSEMOUNT ANALYTICAL INC.
ADDRESS: 2400 BARRANCA PARKWAY
IRVINE, CA 92606
TELEPHONE: 949/757-8500
(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

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PREPARED BY: T. Phillips

SECTION 1-Product Identification

Product Name: Solution, 3.7% Formalin
Synonyms: Solution, 3.7% formaldehyde
Part Number: 9210455

SECTION 2-Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent	Hazardous
Formaldehyde	50-00-0	3.7	no
Non-hazardous ingredient (DI water)	7732-18-5	96.3	no

SECTION 3-Hazards Identification

Health Rating: 2
Flammability Rating: 0
Reactivity Rating: 0

Lab Protective Equip: safety glasses, gloves, lab coat

SECTION 4-First Aid Measures

INHALATION: If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SKIN CONTACT: Wash off with soap and plenty of water. Consult a physician.

EYE CONTACT: rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

SECTION 5-Fire Fighting Measures

Fire: Non-flammable/combustible

Explosion: N/A

Fire Extinguishing Media: N/A

Special Information: Wear self-contained breathing apparatus for fire fighting if necessary.

SECTION 6-Accidental Release Measures

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7-Handling and Storage**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation or vapor mist.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8-Exposure Controls/Personal Protection

Airborne Exposure Limits: 0.3 ppm (USA. ACGIH threshold Limit Values (TLV))

Ventilation System: Fume hood indoors, N/A outdoors

Personal Respirators (NIOSH Approved): A 3.7% solution is not as big a threat as a 37% solution, however, a full face supplied air respirator is recommended by the manufacturer, just to be safe.

Skin Protection: Gloves, and lab coat are adequate for a 3.7% solution.

Eye Protection: Safety glasses recommended.

SECTION 9-Physical and Chemical Properties

Appearance: clear, liquid

Odor: sweet poison

Solubility: 100%

Specific Gravity: N/D

pH: N/D

Boiling Point: N/D

Melting Point: N/D

Vapor Density (Air=1): N/D

Vapor Pressure (mm Hg): N/D

Evaporation Rate (BuAc=1): N/D

SECTION 10-Stability and Reactivity

Stability: Stable

Hazardous Decomposition Products: Carbon oxides under fire conditions.

Hazardous Polymerization: Will not occur

Incompatibilities: Strong bases, oxidizing agents, amines, strong acids, acid anhydrides, peroxides, isocyanates, phenol, aniline.

Conditions to Avoid: N/D

SECTION 11-Toxicological Information

There is no data available, although the IARC has rated this a group 1 carcinogen to humans, while the NTP says that formaldehyde is reasonably anticipated to be a human carcinogen. Then it says, it is known to be a carcinogen.

Formaldehyde is commonly used in science labs to store tissues as it preserves tissues from decay. This is not a substance that you would want to ingest, get on your skin or inhale if possible.

SECTION 12-Ecological Information

Environmental Fate: N/D

Environmental Toxicity: Toxic to aquatic life

SECTION 13-Disposal Considerations

Solution should be shipped to a licensed toxic disposal sit facility (TDSF) as required by local county, state and/or federal regulations. Do not pour down drain!

SECTION 14-Transport Information

Not considered a dangerous good by DOT (US), IMDG or IATA

SECTION 15-Regulatory Information

Formaldehyde is a Sara 302, 313 component, as well as a SARA 311/312 Hazard. It is also a Massachusettes, New Jeresy, and Pennslyvania Right to know components. It is also a California Prop 65 Component and is known in the state of California to cause cancer.

SECTION 16-Other Information

NFPA Ratings: Health:2 Flammability:0 Reactivity:0

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Prepared by: Rosemount Analytical Inc.
Phone Number: (949) 757-8500