

Material Safety Data Sheet



Section 1. Chemical Product and Company Identification

Product Name	Product Code
Formalin Solution, 10%, C.M. pH 7.4	28610
Manufacturer's Name	Emergency Telephone Number
StatLab Medical Products, Inc.	800-424-9300
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information
407 Interchange st.	800-442-3573 x 2
McKinney Tx 75071	Date Prepared
	10/14/2003 (rev 10/20/05)
	Signature of Preparer (optional)

Section 2. Composition/Information on Ingredients

Component	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	Percent
Formaldehyde	50-00-0	0.75 ppm	C 0.3 mg/m ³		3-4
Methyl Alcohol	67-56-1	200 ppm	250 ppm		1-1.5
Sodium Phosphate Monobasic Monohydrate	10049-21-5	N/A	N/A		1.9
Sodium Hydroxide	1310-73-2	2 mg/m ³	C 2 mg/m ³		<1
Water, Deionized	7732-18-5	N/A	N/A		Balance

Section 3. Hazards Identification

Emergency Overview

Contains Formaldehyde, a suspected carcinogen. Irritating to the eyes, respiratory system and skin. May cause sensitization by inhalation or skin contact. May be fatal if swallowed. If ingested, dilute with water, induce vomiting then call a physician. Wash areas of contact with water. If inhaled, remove to fresh air.

Potential Health Effects

Target Organs	Eyes, skin, respiratory system.
Eye	Causes irritation, redness and pain.
Skin	May cause irritation, redness and pain. Frequent or prolonged exposure may cause hypersensitivity leading to contact dermatitis.
Ingestion	May cause severe abdominal pain, vomiting, headache and diarrhea.
Inhalation	Causes irritation of respiratory tract. Symptoms may include sore throat, coughing and shortness of breath.
Chronic/Carcinogenicity	IARC-Formaldehyde is probably carcinogenic. NTP-Formaldehyde is reasonably anticipated to be a carcinogen. OSHA-Yes (Formaldehyde)
Teratology	Mutation data cited in "Registry of Toxic Effects of Chemical Substances" on Formaldehyde.
Reproduction	Reproductive effects cited in "Registry of Toxic Effects of Chemical Substances" on Formaldehyde.
Mutagenicity	N/A

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Section 4. First Aid Measures

Eye Irrigate immediately with large quantity of water for at least 15 minutes.

Skin Flush with water for at least 15 minutes.

Ingestion Dilute immediately with water or milk. Induce vomiting.
Call a physician.

Inhalation Remove to fresh air. Give artificial respiration if necessary.

All Other Means of Exposure CONTACT POISON CONTROL CENTER IMMEDIATELY. Be prepared to provide hazardous ingredient information from Section 2.

Section 5. Fire Fighting Measures

Flammable Properties Flash Point N/A Method N/A

Flammable Limits Lower N/A Upper N/A

Autoignition Temperature N/A

Hazardous Combustion Products N/A

Extinguishing Media Use any means suitable for extinguishing the surrounding fire. (Water spray, dry chemical, alcohol foam, or carbon dioxide.)

Fire Fighting Instructions Not considered to be a fire or explosion hazard.

Fire & Explosion Hazards Use normal procedures/instructions.

Fire Fighting Equipment Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6. Accidental Release Measures

Ventilate area of leak or spill. Cover spill with 1:1:1 mixture of Sodium Carbonate, clay cat litter, and sand. Scoop into container and transport to fume hood. Add the mixture to cold water (about 10 mL water for each 1 mL of Formaldehyde solution). Slowly add household bleach (2.5 mL bleach for each 1 mL of Formaldehyde solution). Allow to stand for 20 minutes. Decant liquid to drain. Flush with water. Treat solid residue as normal refuse.

Section 7. Handling and Storage

Handling/Storage As with all chemicals, wash hands thoroughly after handling.

Avoid contact with eyes. Protect from freezing and physical damage. Use with adequate ventilation. Store at controlled room temperature, 15-30°C.

SAFETY STORAGE CODE: HEALTH

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Section 8. Exposure Controls, Personal Protection

Engineering Controls Use of a fume hood is recommended.

Respiratory Protection If the exposure level is exceeded, wear a full facepiece respirator equipped with a formaldehyde cartridge.

Skin Protection Gloves

Eye Protection Safety glasses or goggles.

Permissible Exposure Levels (see also Section 2)

Component	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	Percent
Formaldehyde	50-00-0	0.75 ppm	C 0.3 ,g/m ³		3-4
Methyl Alcohol	67-56-1	200 ppm	250 ppm		1-1.5
Sodium Phosphate Monobasic Monohydrate	10049-21-5	N/A	N/A		<1
Sodium Phosphate Dibasic	1310-73-2	N/A	N/A		<1
Water, Deionized	7732-18-5	N/A	N/A		Balance

Section 9. Physical and Chemical Properties

Boiling Point	approx. 100°C	Specific Gravity (H ₂ O = 1)	approx. 1.02
Vapor Pressure (mm Hg)	N/A	Melting Point	approx. 0°C
Vapor Density (AIR = 1)	N/A	Evaporation rate (Butyl Acetate = 1)	N/A
Solubility in Water	Infinite	Physical State	Liquid
Appearance and Odor	Clear, colorless/pungent odor	Other	pH: 7.4

Section 10. Stability and Reactivity

Chemical Stability Stable under normal conditions of use and storage.

Incompatibility Strong oxidizers, strong alkalies, acids, phenol, urea.

Hazardous Decomposition Products May form Carbon Dioxide, Carbon Monoxide and Formaldehyde when heated to decomposition.

Hazardous Polymerization Nonhazardous polymerization may occur, forming paraformaldehyde, a white solid.

Section 11. Toxicological Information

LD₅₀, Oral, Rat: (Formaldehyde) 100 mg/kg;

Details of toxic effects not reported other than lethal dose value.

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Section 12. Ecological Information

Ecotoxicological Information: Formaldehyde is expected to be slightly toxic to aquatic life.

Chemical Fate Information: Formaldehyde is expected to readily biodegrade when released into water.

Section 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be disposed of in a RCRA approved waste disposal facility. Dispose of in accordance with local, state, and federal regulations.

Section 14. Transport Information

GROUND SHIPMENTS: Not regulated

AIR SHIPMENTS: Aviation Regulated Liquid n.o.s. (formaldehyde), 9, UN3334

NOTE: It is ultimately the shippers responsibility to make hazard class determination based on their best information available.

Section 15. Regulatory Information

OSHA Status: This item meets the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory.

CERCLA Reportable Quantity: Formaldehyde, RQ 100 pounds; Sodium Hydroxide 1,000 pounds

SARA TITLE III:

Section 302 Extremely Hazardous Substances: Formaldehyde TPQ 500 pounds

Section 311/312 Hazardous Categories: No

Section 313 Toxic Chemicals: Formaldehyde, 0.1% De Minimus concentration

RCRA Status: No

California Proposition 65: Not listed (Formaldehyde gas is listed)

Florida: Formaldehyde is listed on the state Toxic Substances List.

Pennsylvania: Formaldehyde is listed as an environmental and special hazard on the Hazardous Substances List.

Section 16. Other Information

NFPA Ratings: Health: 2 Flammability: 2 Reactivity: 0 Special Notice Key: None

HMIS® Ratings: Health: 4 Flammability: 2 Reactivity: 0 Protective Equipment: C
(protective eyewear and gloves)

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration to its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and STATLAB MEDICAL PRODUCTS, INC. assumes no legal responsibility or liability whatsoever resulting from its use.