

MATERIAL SAFETY DATA SHEET

FORMALIN 37% FORMALDEHYDE

Revised: 09/05/00
Replaces: None f 4

1. PRODUCT DESCRIPTION

Product Name: Formalin, 37% Formaldehyde
Product Code(s): 86-3161, 86-3461, 86-3463, 86-3465, 86-3467, 86-3480,
86-3482, 86-3484
Size: 500mL, 8pt, 4 L, 20 L, 205 L
Chemical Name: Formaldehyde
CAS Number: 50-00-0
Formula: See Section 2
Synonyms: Methanal, Formalin
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components:
Formaldehyde (CAS#50-00-0) 37%
Methanol (CAS#67-56-1) 12%
TLV and PEL units:
Formaldehyde: ACGIH-TLV Ceiling 0.3 ppm;
OSHA-PEL 0.75 ppm (TWA), STEL 2 ppm, Ceiling 5 ppm
Methanol: ACGIH

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Flammable Limits in Air % by Volume: LEL 7% UEL 73%

Autoignition Temperature: 424C

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self

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10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Excessive heat. Eliminate all sources of ignition

where formaldehyde is used, handled, or stored.

Incompatibility(Materials to Avoid): Oxidizers. Reacts with phenol, strong

acids or alkalis violently. Reaction with hydrochloric acid may form additional carcinogenic compounds

Hazardous Decomposition Products: N/A

Hazardous Polymerization: Non-hazardous polymerization may occur at low temperatures causing the formation of paraformaldehyde, a white solid.

11. TOXICITY DATA

Toxicity Data: orl-rat LD50: 100 mg/kg; ihl-rat LC50: 203 mg/m3;
skn-rbt LD50: 270 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: Carcinogenic and mutagenic effects data cited.

Pulmonary edema. Listed by NTP, IARC, and OSHA as causing cancer.

Conditions Aggravated by Overexposure: Individuals with pre-existing diseases of retina, kidneys, liver or cardiovascular system may have increased susceptibility to the toxic effects of formaldehyde.

Target Organs: Eyes, kidneys, liver, cardiovascular system, and skin

Primary Route(s) of Entry:

12. ECOLOGICAL DATA

EPA Waste Numbers: U122, U154

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Description: Formaldehyde solutions, flammable, 3, UN1198, III

205 L container is a reportable quantity.

15. REGULATORY INFORMATION

This product contains formaldehyde, a chemical known to cause cancer, birth defects, or other reproductive harm.

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute Chronic
Fire

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CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00
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Printed: 23/08/00

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals Name List	Chemical Category	CERCLA Sec. 103 RQ lbs.	RCRA Sec.
261.33					

Formaldehyde	500	Yes	No	100	Yes
Methanol	No	Yes	No	5000	Yes

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Services Abstract Number
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act