

# MATERIAL SAFETY DATA SHEET

FORMALIN 37% FORMALDEHYDE

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

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## 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-contained breathing apparatus.

Unusual Fire and Explosion Hazards: May travel distances to an ignition source.

## **6. SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **7. SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling or Storing: Store tightly closed containers in cool area suitable for storage of combustible liquids.

Use non-sparking tools and explosion-proof equipment.

Other Precautions: Personnel handling formaldehyde must be trained in its use and for emergency situations. Provide safety showers and eyewash stations in areas of formaldehyde use. Avoid all skin contact. Avoid breathing fumes.

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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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FORMALIN 37% FORMALDEHYDE  
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00  
Replaces: None  
Printed: 23/08/00

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

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|              |     |     |    |      |     |
|--------------|-----|-----|----|------|-----|
| 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