

# **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

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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