

**CHEMSAFE™**

**MATERIAL SAFETY DATA SHEETS**

Prepared by

Springborn Regulatory Services, Inc.

Enfield, Connecticut 06082


# CHEMSAFE™ MATERIAL SAFETY DATA SHEET

**I IDENTIFICATION**

MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.
ADDRESS (Number, Street, City, State, and ZIP Code)		CAS NUMBER 50-00-0
CHEMICAL NAME AND SYNONYMS <del>FORMALDEHYDE SOLUTION</del> Formaldehyde Solution	TRADE NAME AND SYNONYMS Formalin 37% Methanol Free	
CHEMICAL FAMILY Aqueous Formaldehyde Solution	FORMULA HCHO	

**II CHEMSAFE™ INSTRUCTIONAL CLASSIFICATION**

Affix Appropriate Chemsafe™ Instructional Classification Label



\*Refer to CHEMSAFE™ instructional booklets for data regarding the properties, appropriate safe use and storage, and emergency response for this class of substance.

**III HAZARDOUS INGREDIENTS**

INGREDIENT NAME	%	TLV AND SOURCE (units)	INGREDIENT NAME	%	TLV AND SOURCE (units)
1. Formaldehyde	37	Ceiling 2 ppm	4.		
2.		ACGIH (1982)	5.		
3.			6.		

**IV PHYSICAL DATA**

Boiling Point at 760 mm Hg	210°F	Specific Gravity (H <sub>2</sub> O = 1)	77°F	1.112
Vapor Pressure (mm Hg at 35°C / -20°C)	2.7 / 1.0	Percent Volatile By Volume (%)	System	100
Vapor Density (Air = 1) Formaldehyde	1.067	Evaporation Rate (Butyl Acetate = 1)	System	0.5
Solubility In Water (% by Weight) Solution	Complete	Melting Point (°F.)		

Appearance and Odor Clear, colorless liquid, characteristic pungent odor

**V FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used) System Tag C.C. 185°F	Flammable Limits in Air (% by Volume)	Lower (LeI) 7.0	Upper (Uel) 73.0
Extinguishing Media Carbon dioxide, dry chemical, foam or water spray.			
Fire Fighting Procedures Wear self-contained breathing apparatus. Irritating gaseous concentrations may be evolved.			
Fire and Explosion Hazards Keep away from sparks, flame or other ignition sources.			

**VI LOCATIONS USED AND STORED (Completed By User)**

Locations Used
Locations Stored

While Springborn Regulatory Services, Inc., (SRS) believes that the data contained herein are factual and believes that the opinions expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which SRS assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations

**VII HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE (TLV) AND SOURCE  
 C2 PPM, C3 mg/m<sup>3</sup> TWA ACGIH 1982

EFFECTS OF OVEREXPOSURE Inhalation: sharp pungent odor detectable at 0.8 ppm in air, irritating to nose and throat. Skin Exposure - reddening and hardening of skin, vesicle, dermatitis.

Eye Exposure - Burning, weeping, liquid could cause corneal burns

EMERGENCY FIRST AID PROCEDURES

Inhalation effects are transient, disappear on exposure to fresh air, prolonged exposure can cause hypersensitivity. Skin exposure, wash with water. Eye exposure, flush with water for 15 min. refer to doctor.

**VIII REACTIVITY DATA**

UNSTABLE  STABLE CONDITIONS TO AVOID  
 Store above 70° F to avoid paraformaldehyde precipitation

INCOMPATIBILITY (MATERIALS TO AVOID)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION  MAY OCCUR  WILL NOT OCCUR CONDITIONS TO AVOID

**IX SPILL OR LEAK PROCEDURES**

PROCEDURES TO CONTAIN AND CLEAN UP LEAKS AND SPILLS

For minor leaks or spills, flush to sanitary sewers with large quantities of water.

Formaldehyde in low concentrations is biodegradable in sewage treatment plants. For major spills, evacuate area and collect wash water for incineration.

REPORTING PROCEDURE

Report in accordance with local, state, and federal regulations.

WASTE DISPOSAL METHOD

Use commercial absorbing materials (e.g. Speed-Dri) and dispose of via landfill procedures consistent with local, state, and fed. regulations.

**X PROTECTION INFORMATION** Incineration may be required.

RESPIRATORY PROTECTION (SPECIFY TYPE)

US Bureau of Mines approved canister mask or self-contained breathing apparatus.

VENTILATION	LOCAL EXHAUST	SPECIAL
	Local vapor concentration below TLV	N/A
	MECHANICAL (GENERAL)	OTHER

PROTECTIVE GLOVES Rubber	EYE PROTECTION Goggles and face shield
-----------------------------	---

OTHER PROTECTIVE EQUIPMENT AND CLOTHING  
 Coveralls and rubber foot coverings.

**XI SPECIAL PRECAUTIONS**

HANDLING AND STORAGE CONDITIONS

Store above 70° and below 120° F. Should be handled in completely closed equipment to minimize toxic and irritating vapors in air.

OTHER  
 Do not ingest. Avoid skin and eye contact. Avoid exposure to vapors. Pouring or handling in open containers should be in forced draft hood.

**XII INFORMATION SUBMITTED BY**

NAME	DATE
COMPANY	2/83
	SOURCES
	OSHA, NFPA

**CONTINUATION/NOTES**