

# MATERIAL SAFETY DATA SHEET

*Product Name:* Formaldehyde (20%)  
*Catalog Number(s):* 20295, 20297, 20300, 20303, 20304  
*Proper DOT Shipping Name:* Formaldehyde  
*DOT Hazard Class:* Flammable liquid  
*UN ID Number:* UN 1198  
*MSDS Updated:* 9/11

*Distributed By:* Ladd Research Industries  
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Williston, VT 05495  
(802) 658-4961

## HAZARDOUS COMPONENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
Formaldehyde	50-00-0	20%	3 ppm TWA 1 ppm TLV

## PHYSICAL DATA

*Boiling Point:* 96EC  
*Melting Point:* Not established  
*Specific Gravity:* approx. 1  
*Vapor Pressure:* 1.3-17 at 20-60EC  
*Vapor Density:* 1.03  
*Solubility in Water:* Soluble  
*Evaporation Rate:* Not determined  
*Appearance and Odor:* Clear, colorless liquid. Pungent, irritating odor

## FIRE AND EXPLOSION HAZARD DATA

*Flash Point:* Not determined  
*Explosive Limits:* 7 - 73%  
*Autoignition Temperature:* 430EC  
*Extinguishing Media:* Water in large amounts, dry chemical, carbon dioxide, alcohol foam  
*Special Fire Fighting Procedures:* Use self-contained breathing apparatus and protective clothing.  
*Unusual Fire and Explosion Hazards:* Formaldehyde vapors may require evacuation of the area in case of fire.

## HEALTH HAZARD DATA

*Ingestion:* May cause vomiting and diarrhea which may lead to collapse.  
*Skin Absorption:* May cause redness. Contact with covered skin, as from clothing wet with this chemical, may cause burns.  
*Inhalation:* Vapor irritates the upper respiratory tract and lungs.  
*Eye Contact:* May cause redness or possibly more severe damage to the cornea or eyelids.

## EMERGENCY AND FIRST AID

*Ingestion:* If patient is not vomiting, induce vomiting. Call physician.  
*Skin:* Wash contaminated skin with soap and water. Contaminated clothing should be washed before reuse.

*Inhalation:* Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

*Eyes:* Immediately flush with water and continue washing for at least 15 minutes. Obtain the advice of an ophthalmologist.

## **REACTIVITY DATA**

*Stability:* Stable

*Incompatibility (Materials to Avoid):* Ammonia, alkalies, tannin, iron preparations, gelatin, bisulfides; salts of Cu, Fe and Ag; peroxide, iodine, potassium permanganate. Combines directly with albumin, casein, gelatin, agar and starch to form insoluble compounds.

*Hazardous Polymerization:* Will not occur.

## **SPILL, LEAK AND DISPOSAL INFORMATION**

*Release/Spill:* Remove all sources of ignition. Wearing suitable protective clothing, absorb spilled material on vermiculite. Place in fiber carton. Wash spill area with soap and water.

*Disposal:* Disposal must comply with all local, state and federal laws.

## **PROTECTIVE EQUIPMENT AND CONTROL MEASURES**

*Respiratory:* Use self-contained breathing apparatus in high vapor concentrations. Use OSHA/MSHA-approved cartridge for formaldehyde at lower concentrations.

*Ventilation:* This product should be handled in covered equipment, in which case, general (mechanical) room ventilation is expected to be satisfactory. If vapors are strong enough to be irritating to the nose (or eyes), the exposure limit is probably being exceeded and special ventilation may be required.

*Protective Gloves:* Surgical latex, polyethylene, butyl or nitrile gloves recommended.

*Eye Protection:* Wear vapor-proof goggles or face shield.

## **SECTION 313 SUPPLIER NOTIFICATION**

This chemical is subject to the reporting requirements of Section 313 of SARA Title III.

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The information presented is believed to be correct and is the most accurate information available to us at this time. However, Ladd Research makes no warranty, express or implied, and assumes no liability for this information and the product described herein.