

Material Safety Data Sheet

Section 1: Company and Product Identification



(866) 260-0501
Product Name Formaldehyde 37%

Product No. 9611208
CAS 50-00-0

24 HOUR EMERGENCY ASSISTANCE CHEMTREC 800-424-9300		
HAZARD RATING		
4- EXTREME	HEALTH	3
3- SEVERE	FLAMMABILITY	2
2- MODERATE	REACTIVITY	2
1- SLIGHT		
0- MINIMAL		

Material Uses Organic synthesis.

Synonyms Not available.
Formula CH₂O

Section 2: Hazardous Ingredients

Product Name	CAS	Conc (%)	PIN
Formaldehyde*	50-00-0	37	UN1198
Methanol*	67-56-1	7-12	UN1230

For Exposure Limits (TLV, PEL), LD50 and LC50 see section 5 of this document.

* Chemical subject to the reporting of SARA Title III.

Section 3: Physical Data

Appearance	Liquid.	Odor Threshold	Not available.
Color	Colorless.	Vapor Pressure	10 kPa (75 mmHg) (at 20°C)
Odor	Sharp biting.	Evaporation Rate (Reference solvent)	Not available.
Specific Gravity (Water = 1)	1.08 (Water = 1)	Vapor Density (Air = 1)	1.03 (Air = 1)
Melting Point	-15°C (5°F)	Percent Volatile by Volume	44% (v/v).
Boiling Point	96°C (204.8°F)	pH (1% water soln)	4
Water/Oil Dist. Coeff.	Not available.	Solubility	Easily soluble in cold water, hot water.

Section 4: Fire and Explosion Hazard Data

Flash Point (Methods)	CLOSED CUP: 85°C (185°F), (Taglabue.)	Autoignition Temp.	430°C (806°F)
Flammable Limits in Air by Volume	Not available.		
Flammability	Flammable in presence of open flames, sparks and static discharge, of shocks, of heat.		

Explosion Hazard Not available.

Haz. Comb. Prod. These products are carbon oxides (CO, CO₂).

Means of Extinction Use dry chemical powder.

Special Fire Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Unusual Fire and Explosion Hazards

Vapors can travel to a source of ignition and flashback.

Flam. Sub.

Section 5: Health Hazard Data

Exposure Limits ACGIH (TLV/TWA): 1 ppm (Formaldehyde).
 (P.E.L., TLV, etc.) ACGIH (TLV/TWA): 200 ppm (Methanol).

Acute Effects Hazardous in case of skin contact (irritant), of eye contact (irritant). Severe over-exposure can result in death.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. LD50/LC50 LD50: Oral, Rat; 800 mg/kg
 Ingestion. LC50: Rat; 590 mg/m³

Effects of Overexposure

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. California Prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Formaldehyde.

Emergency and First Aid Procedures

SKIN: Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reusing. Seek immediate medical attention. **EYES:** Flush with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention. **INHALATION:** Move exposed person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention. **INGESTION:** If affected person is conscious, give plenty of water to drink. Induce vomiting by touching the back of throat with fingers. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Section 6: Reactivity Data

Stability The product is stable. **Instability Temp.** Not available.

Incompatibility Reactive with oxidizing agents, acids, alkalis.

Degradation Prod. These products are carbon oxides (CO, CO₂) and water. **Hazardous polymerization?** Will not occur.

Materials to Avoid Not available.

Section 7: Spill or Leak Procedures

Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 8: Protection Equipment Information

Equipment Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station on location.

Section 9: Other Information

Special Precautions Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 4). Do not touch or walk through spilled material.

Read label on container before using. Do not wear contact lenses when working with chemicals.

Verified by S. Quandt Effective Date Printed 11/19/2002

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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