

Material Safety Data Sheet

GUARD
Quick Identifier
Common Name (Used on label and list)

SECTION 1

Manufacturer's Name	Hydrol Chemical Company	Emergency Telephone No.	Day - (800) 345-8200 Night - CHEMTREC (800) 424-9300
Address	520 Commerce Drive	Information Calls	(800) 345-8200
City, State, and Zip	Yeadon, PA 19050	Date Prepared	6/97

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (Optional)	CAS NO.
Para Formaldehyde "C"	0.75 PPM	0.75 PPM	CELANESE 0.75 PPM		30525-89-4
Para Dichlorobenzene	75 PPM	75 PPM			106-46-7

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	Slowly sublimes to Formaldehyde Gas	Specific Gravity (H ₂ O=1)	1.4	Vapor Pressure (mm Hg)	1
Solubility in Water	50%	Vapor Density (Air=1)	>1	Reactivity in Water	None
Appearance and Odor	White Powder, Pungent Odor				

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	150°F	Method Used	TCC	Flammable Limits in Air % By Volume	LEL Lower	Unknown	UEL Upper	Unknown
Auto-Ignition Temperature	Unknown		Extinguisher Media	CO ₂ , Dry chemical, Water Spray				
Special Fire Fighting Procedures	Wear self contained breathing apparatus (SCBA) and full protective clothing.							
Unusual Fire and Explosion Hazards	Burning can form, Hydrogen Chloride, Phosgene, Formaldehyde Gases.							

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid	Open flames, hot glowing surfaces, or electric areas.
Incompatibility (Materials to Avoid)	Strong oxidizers, strong alkalies, isocyanates, anhydrides.		
Hazardous Decomposition Products	Carbon monoxide and Dioxide, Formaldehyde Gas, Hydrogen Chloride, small amounts of Phosgene Gas.		
Hazardous Polymerization	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	Conditions to Avoid	None.

SECTION 6 - HEALTH HAZARDS

Acute	Inflammation of Mucous Membranes, Dermatitis, Broncho Pneumonia.	2. Chronic	Formaldehyde possible carcinogen.				
Signs and Symptoms of Exposure	Inflammation of eyes, skin, nasal passages, broncho pneumonia.						
Medical Conditions Generally Aggravated by Exposure	Unknown.						
Chemical Listed as Carcinogen or Potential Carcinogen	Formaldehyde	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	I.A.R.C.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

EMERGENCY AND FIRST AID PROCEDURES

1. INHALATION: Remove from contaminated area. Restore breathing. Seek immediate medical aid.
2. EYES: Wash with water 15 minutes. Seek immediate medical aid.
3. SKIN: Wash with water. Remove contaminated clothing. Wash before reuse.
4. INGESTION: Give 2 glasses of water. Induce vomiting. Seek immediate medical aid.

ROUTES OF ENTRY

1. INHALATION: Inflammation of lining of nose, throat and lungs. Broncho pneumonia.
2. EYES: Can cause irreversible burn damage. Vapor causes irritation, tearing, and burning sensation.
3. SKIN: Causes drying, cracking, peeling, and tanning.
4. INGESTION: Poisonous. Can cause blindness, nausea, stupor, vomiting and death.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Protect containers from physical damage. Store in cool, dry, well-ventilated area. Do not mix with other chemicals. Avoid breathing vapor. Wear proper protective clothing.

Other Precautions: None.

Steps to be Taken in Case Material is Released or Spilled: Wear proper protective clothing and SCBA. Avoid ignition sources. Formaldehyde can be neutralized with Aqua Ammonia or complexed with Sodium Sulfite. Small spills can be neutralized with FORMASORB (Product of Hydrol Chemical Co.).

Waste Disposal Methods (Consult federal, state, and local regulations): Obey all local, state and federal disposal regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type)	NIOSH Formaldehyde or SCBA.				
Ventilation	Local Exhaust	To maintain below TLV	Mechanical (General)	Special	Other
Protective Gloves	Neoprene or Rubber		Eye Protection	Chemical Safety Goggles.	
Other Protective Clothing or Equipment	Rubber or Neoprene Apron and Boots, Eye Wash Station, Safety Shower.				
Work/Hygenic Practices	Always wash thoroughly after using chemical.				

SECTION 9 - OTHER INFORMATION

DOT HAZARD CLASS:	CONSUMER COMMODITY ORM-D	UN NUMBER:	NA
NFPA HAZARD RATING:	HEALTH: 2 FLAMMABILITY: 1		