



**COLUMBUS CHEMICAL INDUSTRIES INC.**

P.O. BOX 8  
 COLUMBUS, WISCONSIN 53925-0008  
 (920) 623-2140  
 FAX (920) 623-2577

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY** (as Used on Label and List)

**FAA Solution**

**Note:** Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

07-16-2007

Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ethyl Alcohol* **	67-17-5	1000 ppm	TWA:1000 ppm	Not available	40-45%
Formaldehyde* **	50-00-0	0.75 ppm TWA	0.3 ppm	2 ppm STEL	10-15%
Acetic Acid*	64-19-7	10 ppm	10 ppm	15 ppm	1-3%

\*SYNONYMS: Ethanol

\*\*Subject to the reporting requirements of SARA Title III Section 313.

\*\*\*SYNONYMS: Formalin; Methylene Oxide; Methyl Aldehyde. Known to the State of California to cause

**Section III - Physical/Chemical Characteristics**

Boiling Point	Not available	Specific Gravity (H <sub>2</sub> O = 1)	1.00
Vapor Pressure (mm Hg)	Not available	Melting Point	Not available
Vapor Density (AIR = 1)	Not available	Evaporation Rate (Butyl Acetate = 1)	Not available

Solubility in Water

Complete.

Appearance and Odor

Opaque, colorless liquid with alcohol odor.

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
26°C(79 °F); (Tag. closed cup; 40% ethyl alcohol)	(%V/V; ethyl alcohol)	3.3%	19%

Extinguishing Media

Carbon dioxide, dry chemical powder, water spray, appropriate foam.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus

with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions. Vapors may travel long distances along the ground to an ignition source and

flash back. Container explosion may occur under fire conditions.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Heat, ignition sources, fire, oxidizing agents.
	Stable	X		

**Incompatibility Materials to Avoid**

Oxidizing agents, alkali such as sodium and potassium metals and alkaline earth metals.

**Hazardous Decomposition or Byproducts**

Carbon oxides, formaldehyde gas

Hazardous Polymerization			Conditions to Avoid
	May Occur		Not Applicable
	Will Not Occur	X	

**Section VI Health Hazard Data**

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

**Health Hazards (Acute and Chronic)**

SKIN: May cause irritation and may be harmful if absorbed through the skin. Sensitizer. EYE CONTACT: May cause eye irritation.

INHALATION: Can cause irritation, edema, central nervous effects and inflammation. INGESTION: Central nervous system effects including somnolence and hallucinations. Damage to kidneys and developing fetus. Blood pressure lowering.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
Formaldehyde	Anticipated	Category 2A	Yes: 29CFR1910.1048

**Signs and Symptoms of Exposure.**

Headache, nausea, vomiting, dizziness, drowsiness, unconsciousness, delirium, weakness, hallucinations, blood pressure decrease, disorientation, lung irritation, chest pains, gastrointestinal disturbances, difficulty breathing, eye irritation, skin irritation.

Medical Conditions Generally Aggravated by Exposure: Persons with preexisting central nervous system (CNS) disease, neurological conditions, skin disorders, bladder or liver or kidney dysfunction, or chronic respiratory diseases should avoid exposure.

Emergency and First Aid Procedures: INGESTION: If swallowed, wash out mouth with water, call a physician. Do not leave victim unattended. EYES: In case of contact, immediately flush with large amounts of water for at least 15 minutes. Call physician. INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. SKIN: Immediately wash skin with soap and large amounts of water.

**Section VII Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled: Evacuate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant goggles, rubber boots, apron and heavy rubber gloves. Contain spill with dikes, sand or noncombustible absorbent material. Sweep up and place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method: Dispose in accordance with all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing: Keep in tightly-closed, plainly-labelled containers, stored in a cool, dry, ventilated area. Protect against physical damage. Keep away from heat, sparks and flame. Maintain adequate ventilation. Ground all equipment containing this material. Do not store in aluminum equipment above 120 °F.

Other Precautions: Containers, even when empty, will retain residue and vapors which can ignite with explosive force. Always obey hazard warnings and handle empty containers as if they were full. **FLAMMABLE!**

**Section VIII Control Measures**

Respiratory Protection (Specify Type): NIOSH/MSHA-approved respirator with organic vapor cartridge.

Ventilation	Local Exhaust	Necessary.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves: Compatible chemical-resistant gloves. Eye Protection: Chemical Safety goggles.

Other Protective Clothing or Equipment: Rubber boots, fire-retardant garments and face shield.

Work /Hygienic Practices: Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area. Avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapor.

Columbus Chemical Industries, Inc. ("Columbus") believes that the information herein is factual but it is not intended to be all inclusive. The information relates only to the specific Material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Columbus has no continuing control over the Material, those handling, storing or using the Material should satisfy themselves that they have current information regarding the particular way the Material is handled, stored and used and that the same is done in accordance with federal, state and local law. COLUMBUS MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE.