

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)

Ethyl Alcohol, 95% (190 Proof), Completely Denatured

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, Wisconsin 53925

Emergency Telephone Number

CHEMTREC 1 (800) 424-9300

Telephone Number for Information

1 (920) 623-2140

Date Prepared

6-30-2006

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	64-17-5	1000 ppm TWA	1000 ppm TWA	N/A	>80%
Methyl Alcohol*	67-56-1	200 ppm	200 ppm TWA	250 ppm STEL	<5%
Methyl Isobutyl Ketone*	108-10-1	50 ppm TWA	50 ppm TWA	75 ppm	<5%
Ethyl Acetate	141-78-6	400 ppm	400 ppm TWA	N/A	<5%
Light Aliphatic Solvent Naphtha	64742-89-8	N/A	250 ppm TWA	N/A	<5%

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

Section III - Physical/Chemical Characteristics

Boiling Point	80 °C (176 °F)	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg) @ 25 °C	59.3mmHg	Melting Point	-114 °C (-173 °F)
Vapor Density (AIR = 1)	1.6	Evaporation Rate (Butyl Acetate = 1)	3.3

Solubility in Water

Complete

Appearance and Odor

Clear and water white liquid, alcohol odor.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
17 °C / 63 °F (closed cup)		3.3%	19%

Extinguishing Media

Use CO₂, "Alcohol Type" foam, or dry chemical extinguishing media. Use fog nozzles if water is use.

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. Prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions. Vapors from this product may migrate along currents to an ignition source and flash back. Container explosion may occur under fire conditions. Autoignition temperature 363 °C (685 °F)

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Strong oxidizers,
	Stable	X		Avoid heat, sparks, open flames.

Incompatibility Materials to Avoid

Oxidizers, nitric acid, sulfuric acid, aldehydes, halogen compounds, peroxides, acid anhydrides, ammonia, alkali metals.

Hazardous Decomposition or Byproducts

Carbon dioxide, carbon monoxide.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not Available
	Will Not Occur	X	

Section VI Health Hazard Data

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

Health Hazards (Acute and Chronic)

May be fatal if swallowed; harmful if inhaled or absorbed through skin. Irritating to skin, eye, mucous membranes and upper respiratory tract. Can cause central nervous system depression, anemia, convulsions. Chronic exposure can cause liver, heart, and kidney damage and blindness. Can cause fetal defects and retardation if ingested during pregnancy.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not Listed

Signs and Symptoms of Exposure.

Headache, nausea, vomiting, drowsiness, dizziness, inebriation, unconsciousness, coma, and death may result from exposure.

NOT INTENDED FOR HUMAN CONSUMPTION!

Medical Conditions Generally Aggravated by Exposure

Pre-existing skin, eye, and respiratory conditions.

Emergency and First Aid Procedures **EYES:** In case of contact, immediately flush with large amounts of water for at least 15

INGESTION: Get medical attention. Induce vomiting, if conscious. Keep victim warm and calm. **SKIN:** Wash with soap and water. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing give oxygen. Call physician.

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

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Protect against physical damage. Keep away from heat, sparks and flame. Ground all equipment containing this material.

HIGHLY FLAMMABLE MATERIAL!

Other Precautions **DO NOT** weld, braze, saw, or grind near product. Containers, even when empty, will retain residue and vapors which can ignite with explosive force. Obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures

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

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

Protective Gloves Appropriate, chemical-resistant gloves. **Eye Protection** Chemical Safety Goggles

Other Protective Clothing or Equipment Saranax suit, Hazmax boots, Faceshield.

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Avoid eye and skin contact. Avoid breathing vapors. Follow safe handling and laboratory practices. Wash hands prior to eating or smoking.

Avoid prolonged or repeated exposure. **FLAMMABLE! NOT FOR HUMAN CONSUMPTION!**

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