



COLUMBUS CHEMICAL INDUSTRIES INC.

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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)

Butyl Alcohol (sec-)

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

07-19-2006

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)

Butyl Alcohol (sec-)*

78-92-2

150 ppm

100 ppm

STEL 150 ppm

*Synonym; 2-butanol, Methyl Ethyl Carbinol

Section III - Physical/Chemical Characteristics

Boiling Point

94°C (201°F)

Specific Gravity (H2O = 1)

0.810

Vapor Pressure (mm Hg)

@ 20 °C

12 mmHg

Melting Point

-115°C (-175°F)

Vapor Density (AIR = 1)

2.6

Evaporation Rate (Butyl Acetate = 1)

6.69 lb/gal

100% VOC

0.81

Solubility in Water

Complete

Appearance and Odor

Clear, colorless liquid with a disagreeable, choking odor.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)

24°C (75°F); (Tagliabue closed cup)

Flammable Limits

LEL

UEL

1.7%

9.8%

Extinguishing Media

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

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. Vapor can cause flash fire. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. Autoignition Temperature 405°C (761°F).

Section V Reactivity Data

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

Incompatibility Materials to Avoid

Strong oxidizers, organic peroxides, perchloric and permonosulfuric acids.

Hazardous Decomposition or Byproducts

Carbon monoxide, carbon dioxide.

Hazardous Polymerization

	May Occur		Conditions to Avoid	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)

SKIN: May cause irritation and may be harmful if absorbed through the skin. EYE CONTACT: May cause eye irritation. INHALATION: Breathing high concentrations of vapor can cause irritation, blindness, central nervous effects, cardiac arrest, respiratory inefficiency and lung toxicity. INGESTION: Progressive central nervous effects including brain.

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

Signs and Symptoms of Exposure.

Burning sensation of mucous membranes. Nausea, vomiting, staggering gait, dizziness, drowsiness, unconsciousness, delirium, disorientation, weakness, headache, narcosis, vertigo, convulsions, coma, difficulty breathing, eye irritation, skin irritation.

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

Emergency and First Aid Procedures INGESTION: If swallowed, call a physician immediately, do not induce vomiting. 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.

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.

Section VII Control Measures

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

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

Protective Gloves Appropriate 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.

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