

Comet Chemical Company Ltd.

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Materials Safety Data - BUTYL CARBITOL™

™CARBITOL is a trademark of Union Carbide.

Shipping Name

Transport of Dangerous Goods Class

WHMIS Class

Material Use

UN - not regulated for transport

not regulated for transport

not regulated for transport

D 2B

solvent for resins, enamels, cellulose nitrate; plasticiser

1. HAZARDOUS INGREDIENTS

	CAS NUMBER	%	TWAEV (ppm)	LD ₅₀ ORAL	(mg/kg) SKIN	LC ₅₀ ppm INHALATION
Diethylene Glycol Monobutyl Ether	112-34-5	100%	not listed	2000	2700	not known
Ethanol 2-(2-Butoxyethoxy)						

NOTE: Oral LD₅₀s vary considerably between species. Human toxicity unlikely to be less than the above suggests.

2. PHYSICAL CHARACTERISTICS

Odour & Appearance	clear colourless liquid with faint odour
Odour Threshold	not known
Vapour Pressure	0.02 mmHg / 0.003 kPa (20°C)
Vapour Density (aire = 1)	5.5
Boiling Point	230°C
Freezing Point	-68°C
Specific Gravity	0.954
Water Solubility	complete; also soluble in alcohols, ketones and oils

3. FLAMMABILITY & REACTIVITY

Flash Point	78°C (closed cup)
Autoignition Temperature	204°C
Flammable Limits	0.8% - 25%
Hazardous Combustion Products	carbon monoxide, nitrogen oxides, smoke
Firefighting Precautions	foam, dry chemical, water fog, water spray; firefighters must wear SCBA
Sensitivity to Static Discharge	not sensitive
Sensitivity to Mechanical Impact	not sensitive
Chemical Stability	stable; will not polymerize
Reactive With	strong oxidising agents; strong alkalies at high temperatures, strong acids
Dangerous Decomposition Products	none apart from "Hazardous Combustion Products"

4. TOXICOLOGY

EFFECTS OF ACUTE EXPOSURE

Skin Contact	mild irritant
Skin Absorption	yes; toxic effects unlikely, but possible by this route
Eye Contact	severely irritating, may damage eyes
Inhalation	low vapour pressure makes inhalation unlikely except at elevated temperature when it may cause headache, nausea and dizziness
Ingestion	headache, dizziness, drowsiness, intoxication & vomiting; mental confusion, slurred speech rapid heart rate and respiration, stupor are also possible

(Butyl Carbitol, cont'd)

EFFECTS OF CHRONIC EXPOSURE

General	prolonged absorption causes liver & kidney damage and red cell haemolysis (blood in the urine) in laboratory animals; no such effect has been observed in humans
Sensitising	no
Carcinogenic	no information available
Reproductive Effect	none known in humans
Synergistic With	not known
Estimated LD ₅₀	2000 mg/kg (oral, guinea pig), 5560 mg/kg (oral, rat); 2700 mg/kg (skin, rabbit)
Estimated LC ₅₀	no data available

NOTE: Oral LD₅₀ varies widely among species.

5. PROTECTIVE EQUIPMENT

Hands	butyl rubber, "Viton" or neoprene gloves
Eyes	chemical safety goggles
Respirator	not required unless material is being heated to over 100°C
Clothing	not required

6. ENVIRONMENT

Leak Precaution	dyke to control spillage and prevent environmental contamination
Handling Spill	recover free liquid with suitable pumps; absorb residue on an inert sorbent (dry sand, earth) and store in closed containers for disposal
Waste Disposal	do not flush to sewer ; may be incinerated in approved facility; diluted, this material is biodegradable in a wastewater treatment facility

7. STORAGE & HANDLING

Store and use in a cool dry environment, away from sources of ignition, heat and oxidising agents. Use with adequate ventilation. Do not cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

8. FIRST AID

SKIN:	Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES:	Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is any irritation.
INHALATION:	Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION:	Give plenty of water to dilute product. Do not induce vomiting (see below). Keep victim quiet. If vomiting occurs, keep victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this product. The stomach should be emptied under medical supervision, after the installation of an airway to protect the lungs.

Emergency telephone numbers	- weekdays from 8:00 - 5:00	(705) 436-5580
	at all other times	(800) 567-7455 (Philip Environmental)

Prepared for Comet Chemical Co. Ltd., by *Nicholas Morgan, September 2002; Revised August 2005*

The information herein is given in good faith but no warranty expressed or implied is made.

PLEASE ENSURE THAT THIS MSDS IS GIVEN TO AND EXPLAINED TO THE PERSON USING THIS PRODUCT

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