

Comet Chemical Company Ltd.

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Materials Safety Data - BUTYL CARBITOL™ ACETATE

™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
not controlled under WHMIS
solvent for resins, gums, cellulose nitrate; plasticiser

1. HAZARDOUS INGREDIENTS	CAS NUMBER	%	TWAEV (ppm)	LD ₅₀ ORAL	(mg/kg) SKIN	LC ₅₀ mg/m ³ INHALATION
Diethylene Glycol Monobutyl Ether Acetate	124-17-4	100%	not listed	2260	14,500	72,500

2. PHYSICAL CHARACTERISTICS

Odour & Appearance clear colourless liquid with mild odour
Odour Threshold not known
Vapour Pressure 0.04 mmHg (20°C)
Vapour Density (aire = 1) 7
Boiling Point 247°C
Freezing Point -32°C
Specific Gravity 0.978
Water Solubility 6%

3. FLAMMABILITY & REACTIVITY

Flash Point 116°C
Autoignition Temperature 295°C
Flammable Limits 0.8% - 10.7%
Hazardous Combustion Products carbon monoxide, nitrogen oxides
Firefighting Precautions foam, dry chemical, water fog, water spray only to cool, product floats on water - water jet spreads flames; firefighters must wear SCBA
Sensitivity to Static Discharge not a static accumulator
Sensitivity to Mechanical Impact not sensitive
Chemical Stability stable; will not polymerize; reactive with strong oxidizing agents; strong alkalies at high temperatures
Dangerous Decomposition Products none apart from "Hazardous Combustion Products"

4. TOXICOLOGY

EFFECTS OF ACUTE EXPOSURE

Skin Contact mild irritant
Skin Absorption yes; but low toxicity by this route
Eye Contact mild irritant
Inhalation low vapour pressure makes inhalation unlikely except at elevated temperature
Ingestion irritation or burning of mouth, & throat abdominal pain may occur; headache, dizziness, drowsiness, intoxication & vomiting

(Butyl Carbitol Acetate, cont'd)

EFFECTS OF CHRONIC EXPOSURE

General	deliberate ingestion may cause muscle weakness and weight loss mild erythema (skin reddening) and exfoliation (peeling) on prolonged exposure
Sensitising	no
Carcinogenic	not a tumorigen; not a carcinogen
Reproductive Effect	none known in humans
Synergistic With	not known
Estimated LD ₅₀	2260 mg/kg (oral, rabbit), 2340mg/kg (oral, guinea pig), 6500mg/kg (oral, mouse & rat); 14,500 mg/kg (skin, rabbit)
Estimated LC ₅₀	72,500mg/m ³ (inhalation, rat)

5. PROTECTIVE EQUIPMENT

Hands	butyl or nitrile gloves
Eyes	safety glasses with side shields
Respirator	not required unless material is being heated to over 100°C
Clothing	impermeable (hands, above) apron, boots & long sleeves if splashing is anticipated

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

7. STORAGE & HANDLING

Store and use in a cool dry environment, away from sources of ignition, heat and oxidizing 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*

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