



## SAFETY DATA SHEET

### BUTYL CARBITOL

#### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: BUTYL CARBITOL

Recommended use: Chemical for industry

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**  
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#### 2. HAZARDS IDENTIFICATION

##### Label elements

Pictogram



Signal word

Danger

##### Hazard statement(s)

- 1.) Causes skin irritation.
- 2.) May be fatal if swallowed and enters airways.
- 3.) May cause drowsiness or dizziness.
- 4.) Toxic to aquatic life with long lasting effects.
- 5.) May damage the unborn child. Suspected of damaging fertility.

##### Precautionary statement(s)

- 1.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 2.) Avoid release to the environment.



- 3.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.
- 4.) IF IN EYES: Rinse cautiously with water for 15 minutes.
- 5.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonym:** Butyl diglycol, Butoxy diglycol, Butyl dioxitol, 2-(2-Butoxyethoxy) ethanol, Butoxyethoxyethanol, Diethylene glycol butyl ether, Diethylene glycol monobutyl ether, diethylene glycol butyl ester

Ingredients	% (w/w)	CAS NO.
BUTYL CARBITOL	100	112-34-5

### 4. FIRST AID MEASURES

- General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
- Skin contact:** Wash off with soap and plenty of water. Consult a physician.
- Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media:**

No data available

**Specific hazards arising from Chemicals:**

No data available

**Special protective equipment for fire-fighters:**

Wear self contained breathing apparatus for fire fighting if necessary.



## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

**Environmental precautions:** Do not let product enter drains.

### Methods and Material for Containment and Clean Up:

Soak up with inert absorbent material and dispose of as hazardous waste.

Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling & Product Transfer:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

### Conditions for Safe Storage & Unsuitable Materials :

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** TWA 10 ppm (55 mg/m<sup>3</sup>), OEL 10 ppm (50 mg/m<sup>3</sup>)

**Appropriate Engineering Controls:** The product should only be used in ventilation hoods and fans.

### Individual Protection Measures

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

**Eye protection:** Safety glasses with side-shields conforming to EN166

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.



**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form, Color and Odor :</b> liquid, colourless,characteristic	<b>Evaporation rate :</b> <1 ( n-Bu Acetate = 100)
<b>Melting Point :</b> -68 °C	<b>Specific gravity :</b> 0.953 – 0.956 g/cm <sup>3</sup> at 20 °C
<b>pH :</b> N/A	<b>Solubility in water :</b> Soluble at 20 °C
<b>Boiling point :</b> 227-235 °C	<b>Viscosity :</b> 6.2 mm <sup>2</sup> /s (20 °C)
<b>Vapour pressure :</b> 0.002 kPa at 20 °C	<b>Vapour density :</b> N/A
<b>Lower explosive limits :</b> 0.7 %Vol	<b>Upper explosive limits:</b> 9.9 %Vol
<b>Auto-ignition temperature:</b> 204 °C	<b>Flash Point:</b> 78 °C
<b>Odour threshold:</b> N/A	<b>Flammability (solid, gas):</b> N/A
<b>Decomposition temperature:</b> N/A	<b>Solubility in other solvents:</b> N/A
<b>n-octanol/water partition coefficient (log P<sub>ow</sub>):</b> 0.56	

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under recommended storage conditions.

**Reactions:** No data available

**Possibility of Hazardous Reactions:** No data available

**Conditions to avoid:** May form peroxides of unknown stability.

**Materials to avoid:** Strong oxidizing agents, Light metals

**Hazardous decomposition products:**Hazardous decomposition products formed under fire conditions. -

Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** LD50 Oral - rat – 7300-9600 mg/kg

LD50 Dermal - rabbit - 2600 mg/kg

LD50 Dermal - rabbit - 4120 mg/kg

Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis.

**Sensitization:** May be harmful if inhaled. May cause respiratory tract irritation.



May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. Causes eye irritation.

**Chronic toxicity:** No data available

**Further toxicological information:** No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish: LC50 - *Lepomis macrochirus* - 1.300 mg/l - 96 h  
Toxicity to algae IC50 - *Desmodesmus subspicatus* (green algae) - > 100 mg/l - 24 h  
Toxicity to bacteria LC50 - *Pseudomonas putida* - 1.170 mg/l - 16 h  
Biodegradability Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

**Bioaccumulative Potential:** No data available

**Mobility:** No data available

**Affected in any other way:** No data available

## 13. DISPOSAL CONSIDERATIONS

**Material Disposal:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.  
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.

**Container Disposal:** Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### ADR/RID

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods



## 15. REGULATORY INFORMATION

### GHS - Labelling:

#### Hazard statement(s)

H319 Causes serious eye irritation.

#### Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Hazard symbol(s)

Xi Irritant

#### R-phrases(s)

R36 Irritating to eyes.

#### S-phrases(s)

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## 16. OTHER INFORMATION

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