



# SAFETY DATA SHEET

## CELLOSOLVE SOLVENT

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

Product name: CELLOSOLVE SOLVENT  
Recommended use: Chemical for industrial  
Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**  
82/80 Soi Ekamai 22 (Nuannoi), Sukhumvit 63,  
Klong Tan Nuea, Watthana, Bangkok 10110  
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### 2. HAZARDS IDENTIFICATION

#### Label elements

Pictogram



Signal word

Danger

#### Hazard statement(s)

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

#### Precautionary statement(s)

- 1.) Keep away from heat/sparks/open flames/hot surfaces. - No smoking.



- 2.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 3.) Avoid release to the environment.
- 4.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.
- 5.) IF IN EYES: Rinse cautiously with water for 15 minutes.
- 6.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonym:** Cellosolve®, Ethylene glycol monoethyl ether, Ethyl glycol, "oxitol", 2-ethoxy ethanol

Ingredients	% (w/w)	CAS NO.
CELLOSOLVE SOLVENT	100	110-80-5

### 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. Take victim immediately to hospital. Consult a physician.

**Eye contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:**

**Do not induce vomiting.** 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:**

Carbon oxides

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

Wear self contained breathing apparatus for fire fighting if necessary.



## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling & Product Transfer:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Avoid exposure - obtain special instructions before use. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for Safe Storage & Unsuitable Materials:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National occupational exposure limits:** TWA 10 ppm (55 mg/m<sup>3</sup>)

**Appropriate Engineering Controls:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 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> 32 (n-Bu Acetate =100)
<b>Melting Point:</b> -70 °C	<b>Specific gravity:</b> 0.929-0.934 g/cm <sup>3</sup> at 20 °C
<b>pH:</b> N/A	<b>Solubility in water:</b> completely miscible
<b>Boiling point:</b> 132-138 °C	<b>Viscosity:</b> N/A
<b>Vapour pressure:</b> 5.1 hPa at 20 °C	<b>Vapour density:</b> 3.1 g/l
<b>Lower explosive limits:</b> 1.8 %Vol	<b>Upper explosive limits:</b> 14 %Vol
<b>Auto-ignition temperature:</b> 235 °C	<b>Flash Point:</b> 49 °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> N/A	

**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:**

Heat, flames and sparks.

**Materials to avoid:**

Oxidizing agents, Copper

**Hazardous decomposition products:**

No data available



## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	LD50 Oral - rat - 2.125 mg/kg
<b>Sensitization:</b>	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.
<b>Chronic toxicity:</b>	No data available
<b>Further toxicological information:</b>	No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish:	LC50 - Lepomis macrochirus - > 10.000 mg/l - 96 h
Toxicity to algae :	No data available
Toxicity to bacteria:	No data available
Toxicity to daphnia and other aquatic invertebrates:	EC50 - Daphnia - 1.892,52 mg/l - 48 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:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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

## 14. TRANSPORT INFORMATION

### ADR/RID

UN-No: 1171

Class: 3

Packing group: III

Proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER



### IMDG/AND

UN-No: 1171

Class: 3

Packing group: III

EMS-No: F-E, S-D

Marine pollutant: No

Proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER

### IATA

UN-No: 1171

Class: 3

Packing group: III

Proper shipping name: Ethylene glycol monoethyl ether

## 15. REGULATORY INFORMATION

### GHS - Labelling:

#### Hazard statement(s)

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H360 May damage fertility or the unborn child.

#### Precautionary statement(s)

- P201 Obtain special instructions before use.
- P280 Wear protective gloves/ protective clothing.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.

#### Hazard symbol(s)



#### R-phrases(s)

- R60 May impair fertility.
- R61 May cause harm to the unborn child.
- R20/21/22 Also harmful by inhalation, in contact with skin and if swallowed.
- R10 Flammable.

#### S-phrases(s)

- S53 Avoid exposure - obtain special instructions before use.
- S45 In case of accident or if you feel unwell, seek medical advice immediately



## 16. OTHER INFORMATION

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