



SAFETY DATA SHEET

CELLOSOLVE ACETATE

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

Product name: CELLOSOLVE ACETATE
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
Telephone No: 0-2715-0897-9, 0-2392-3410-3
Fax No: 0-2715-0908-9, 0-2391-1571-2
Emergency Telephone No: 0-2715-0897-9, 0-2392-3410-3

2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Danger

Hazard statement(s):

- 1.) Flammable liquid and vapour.
- 2.) Harmful if swallowed.
- 3.) Harmful in contact with skin.
- 4.) Harmful if inhaled.
- 5.) Causes mild skin irritation.
- 6.) Cause eye irritation.
- 7.) May damage fertility or the unborn child.

Precautionary statement(s):

- 1.) Obtain special instructions before use.



- 2.) Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- 3.) Keep container tightly closed.
- 4.) Avoid breathing mist/vapours/spray.
- 5.) Do not eat, drink or smoke when using this product.
- 6.) Use only outdoors or in a well-ventilated area.
- 7.) Wear protective gloves/protective clothing/eye protection/face protection.
- 8.) Ground / bond container and receiving equipment.
- 9.) Use explosion-proof electrical/ventilating/lighting/Intrinsically safe equipment.
- 10.) Use only non-sparking tools.
- 11.) IF exposed or concerned: Get medical advice/attention.
- 12.) In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
- 13.) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 14.) If skin irritation occurs: Get medical advice/attention.
- 15.) If eye irritation persists: Get medical advice/attention.
- 16.) IF SWALLOWED: Call a POISON CENTER /doctor/physician/first aider/if you feel unwell.
- 17.) IF ON SKIN: Wash with plenty of water and soap.
- 18.) IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 19.) IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 20.) Rinse mouth with water.
- 21.) Take off contaminated clothing and wash it before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: Ethylene glycol monoethyl ether acetate, Ethyl glycol acetate, Acetic acid 2-ethoxyethyl ester, "oxitol" acetate, EGMEEA, 2-Ethoxythanol acetate, Cellosolve acetate.

| Ingredients | % (w/w) | CAS NO. |
|--------------------|---------|----------|
| CELLOSOLVE ACETATE | 100 | 111-15-9 |

4. FIRST AID MEASURES

- General advice:** Take off immediately all contaminated clothing & get under the shower if spilled over body.
- Inhalation:** Move to fresh air, seek medical attention in case of discomfort.



- Skin contact:** Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.
- Eye contact:** Flush eyes with water with eyelids held open and seek medical attention.
- Ingestion:** Do NOT induce vomiting, rinse mouth water and seek medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Dry chemical, foam, carbon dioxide, water fog or fine spray.

Unsuitable Extinguishing Media:

None known.

Specific hazards arising from Chemicals:

Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches etc. as ignition may result.

Special protective equipment for fire-fighters:

Firefighters must wear positive-pressure, self-contained breathing apparatus (SCBA) and suitable clothing.

Spray water on fire –exposed containers to reduce risk of rupture.

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 vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions: Prevent spillage from entering into soil, sewers, drainage and groundwater.

Methods and Material for Containment and Clean Up:

For small amounts: Remove all ignition sources, collect the spillage through an absorbent (sponge) material.

Dispose-off the collected spillage, in accordance with local regulations.

Clean the affected area with water.

For large amounts: Remove all ignition sources, pump-off the spillage and collect it in suitable containers.

Dispose-off the collected spillage, in accordance with local regulations.

Clean the affected area with water.



7. HANDLING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Keep container tightly closed when not in use. Do not eat, drink, or smoke in working area. Take measures to prevent the build-up of electrostatic charge. Avoid contact with eyes and skin. Use good safety and industrial hygiene practices. Wash thoroughly after handling.

Conditions for Safe Storage & Unsuitable Materials:

Store material in a cool,dry place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Incompatibilities: Oxidizing materials, strong alkalis and acids etc.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits: TWA 0.5 ppm

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 multipurpose 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: Wear chemically resistant protective gloves.

Eye protection: Safety glasses with side shields. Chemical goggles if there is a significant risk of splashing.

Skin and body protection: Wear suitable working clothing; Wear protective clothing as necessary to minimize contact.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash soiled clothing immediately.



9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--|
| Form, Color and Odor : liquid, colourless, Characteristic | Evaporation rate : 0.21(Butyl Acetate=1) |
| Melting Point : -62 °C | Specific gravity : 0.970-0.974 g/cm ³ at 20 °C |
| pH : 5-7 | Solubility in water : Slightly soluble |
| Boiling point : 156 °C | Viscosity : N/A |
| Vapour pressure : 2.0 mmHg | Vapour density : 4.72 (air=1.0) |
| Lower explosive limits : 1.7 %Vol | Upper explosive limits : 13.0 %Vol |
| Auto-ignition temperature : 379 °C | Flash Point : 51 °C |
| Odour threshold : N/A | Flammability (solid, gas) : N/A |
| Decomposition temperature : N/A | Solubility in other solvents : N/A |
| n-octanol/water partition coefficient (log P_{ow}) : 0.24 | |

10. STABILITY AND REACTIVITY

Chemical stability: Remains Stable under recommended Storage Condition.

Reactions: Remains Stable under recommended Storage Condition.

Possibility of Hazardous Reactions: Not Known.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures. open flame, overheating, heat, sparks etc.

Materials to avoid: It is incompatible with oxidizing materials, strong alkalis and acids, peroxides, anhydrides etc.

Hazardous decomposition products: Carbon dioxide and carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 (Oral, rat): 2700 mg/kg

LD50 (Dermal, rabbit): 10,500 mg/kg

LC50 (Inhalation, rat): 1500 ppm-8h

Sensitization: May be skin irritant. Mild eye irritation.

Chronic toxicity: This product does not contain any component that is considered as a human carcinogen.

Further toxicological information: No data available.



15. REGULATORY INFORMATION

International Inventories

- United States:** All components of this product are listed on the TSCA inventory.
- Australia:** All components of this product are listed on the AICS.
- China:** All components of this product are listed on the IECSC.
- Japan:** All components of this product listed on the ENCS.
- Korea:** All components of this product are listed on the KECI.

16. OTHER INFORMATION

Modern Chemical Co.,Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MODERN CHEMICAL CO., LTD. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MODERN CHEMICAL CO.,LTD. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.