



## MATERIAL SAFETY DATA SHEET SDS/MSDS

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : **Cellosolve Acetate**

CAS-No. : 111-15-9

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

#### 1.3 Details of the supplier of the safety data sheet

Company : Bio-Chem Chemicals  
5455, Nicholson Nicholson Road,  
Science Market,  
Ambala Cantt. 133001 Haryana (India)  
+91-82952 41953  
info@biofinechemical.com - www.biofinechemical.co

#### 1.4 Emergency telephone number

Emergency Phone # : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Reproductive toxicity (Category 1B), H360FD

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

##### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H226

H302 + H312 + H332

Flammable liquid and vapour.

Harmful if swallowed, in contact with skin or if inhaled

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| H360FD                         | May damage fertility. May damage 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. |
| Supplemental Hazard Statements | none                                                    |

Restricted to professional users.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : 1-Acetoxy-2-ethoxyethane  
Ethylene glycol monoethyl ether acetate  
Cellosolve® acetate

Formula : C<sub>6</sub>H<sub>12</sub>O<sub>3</sub>  
Molecular weight : 132.12 g/mol  
CAS-No. : 111-15-9  
EC-No. : 203-839-2  
Index-No. : 607-037-00-7

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component                                                                                                                                              | Classification | Concentration                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------|
| <b>Ethylglycol acetate</b> Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) |                |                                      |
| CAS-No.                                                                                                                                                | 111-15-9       | Flam. Liq. 3; Acute Tox. 4; <= 100 % |
| EC-No.                                                                                                                                                 | 203-839-2      | Repr. 1B; H226, H302, H332,          |
| Index-No.                                                                                                                                              | 607-037-00-7   | H312, H360FD                         |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

- 4.3 Indication of any immediate medical attention and special treatment needed**  
No data available

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

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

### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

Use water spray to cool unopened containers.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, 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.

For personal protection see section 8.

### **6.2 Environmental precautions**

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

### **6.3 Methods and materials for containment and cleaning 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).

### **6.4 Reference to other sections**

For disposal see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

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.

Storage class (TRGS 510): Flammable liquids

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

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

## Personal protective equipment

### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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).

### Control of environmental exposure

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                                                   |
|-------------------------------------------------|-------------------------------------------------------------------|
| a) Appearance                                   | Form: clear, liquid<br>Colour: colourless                         |
| b) Odour                                        | No data available                                                 |
| c) Odour Threshold                              | No data available                                                 |
| d) pH                                           | No data available                                                 |
| e) Melting point/freezing point                 | Melting point/range: -61 °C - lit.                                |
| f) Initial boiling point and boiling range      | 156 °C - lit.                                                     |
| g) Flash point                                  | 54 °C - closed cup                                                |
| h) Evaporation rate                             | No data available                                                 |
| i) Flammability (solid, gas)                    | No data available                                                 |
| j) Upper/lower flammability or explosive limits | Upper explosion limit: 13 %(V)<br>Lower explosion limit: 1.7 %(V) |
| k) Vapour pressure                              | 2 mmHg at 20 °C                                                   |
| l) Vapour density                               | 4.56 - (Air = 1.0)                                                |
| m) Relative density                             | 0.975 g/cm <sup>3</sup> at 25 °C                                  |

|                                           |                   |
|-------------------------------------------|-------------------|
| n) Water solubility                       | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature              | No data available |
| q) Decomposition temperature              | No data available |
| r) Viscosity                              | No data available |
| s) Explosive properties                   | No data available |
| t) Oxidizing properties                   | No data available |

## 9.2 Other safety information

Surface tension 31.8 mN/m at 25 °C

Relative vapour density 4.56 - (Air = 1.0)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Strong oxidizing agents, Nitrates, Strong acids, Strong bases

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 2,700 mg/kg(Ethylglycol acetate)

LC50 Inhalation - Rat - 8 h - 12,100 mg/m<sup>3</sup>(Ethylglycol acetate)

#### Skin corrosion/irritation

Skin - Rabbit(Ethylglycol acetate)

Result: Open irritation test

#### Serious eye damage/eye irritation

No data available(Ethylglycol acetate)

#### Respiratory or skin sensitisation

No data available(Ethylglycol acetate)

#### Germ cell mutagenicity

No data available(Ethylglycol acetate)

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

May cause congenital malformation in the fetus.(Ethylglycol acetate)

Presumed human reproductive toxicant(Ethylglycol acetate)

May cause reproductive disorders.(Ethylglycol acetate)

**Specific target organ toxicity - single exposure**

No data available(Ethylglycol acetate)

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available(Ethylglycol acetate)

**Additional Information**

RTECS: KK8225000

Nausea, Headache, Vomiting(Ethylglycol acetate)

**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to daphnia and other aquatic invertebrates      EC50 - Daphnia magna (Water flea) - 193.6 mg/l - 48 h(Ethylglycol acetate)

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available(Ethylglycol acetate)

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

Avoid release to the environment.

No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 1172

IMDG: 1172

IATA: 1172

### 14.2 UN proper shipping name

ADR/RID: ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

IMDG: ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

IATA: Ethylene glycol monoethyl ether acetate

### 14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

### 14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

No data available

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Authorisations and/or restrictions on use

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

|                    |                                                          |
|--------------------|----------------------------------------------------------|
| H226               | Flammable liquid and vapour.                             |
| H302               | Harmful if swallowed.                                    |
| H302 + H312 + H332 | Harmful if swallowed, in contact with skin or if inhaled |
| H312               | Harmful in contact with skin.                            |
| H332               | Harmful if inhaled.                                      |
| H360FD             | May damage fertility. May damage the unborn child.       |