CAS No: 111-15-9 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Chemical structure

Product form : Substance

:

EC index no : 607-037-00-7
EC no : 203-839-2
CAS No : 111-15-9
Product code : 02615

H₂C O CH₃

Synonyms : 2-Ethoxyethyl acetate

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699

info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H226

Category 3

Acute toxicity (oral), H302

Category 4

Acute toxicity (dermal), H312

Category 4

Acute toxicity (inhal.), H332

Category 4

Reproductive toxicity, H360FD

Category 1A

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Repr.Cat.2; R60 Repr.Cat.2; R61 Xn; R20/21/22

R10

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :







GHS02

GHS07

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour

H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

H360FD - May damage fertility. May damage the unborn child

Precautionary statements (CLP) : P201 - Obtain special instructions before use

P280 - Wear protective gloves, protective clothing, eye protection, face protection

P308+P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : CELLOSOLVE ACETATE FOR SYNTHESIS

CAS No : 111-15-9
EC no : 203-839-2
EC index no : 607-037-00-7

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep

at rest in a position comfortable for breathing.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Immediately call a POISON

CENTER or doctor/physician. Wash with plenty of soap and water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries : May damage the unborn child. May damage fertility.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing

significant health hazard. Harmful in contact with skin.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked

lights. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

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Precautions for safe handling : Do not breathe vapours. Take precautionary measures against static discharge. Use

only non-sparking tools. Obtain special instructions before use. Avoid contact with

skin and eyes. Keep away from sources of ignition - No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed

areas with mild soap and water before eating, drinking or smoking and when leaving

work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting/... equipment.

Storage conditions : Keep container tightly closed. Keep in fireproof place. Store in original container.

Store in a well-ventilated place.

Incompatible materials : Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear Colorless.

Odour : mild ester-like.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : < 1

Melting point : -61.7 °C

Freezing point : No data available

Boiling point : 156 °C

Flash point : 47 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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Flammability (solid, gas) : Flammable

Flammable liquid and vapour

Vapour pressure : 2 mm Hg at 20°C (68F)

Relative vapour density at 20 °C : 4.7

Relative density : No data available

Density : 0.98 g/cm³

Solubility : Water: 16 g/100ml

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : ≥ 0.017 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful

if inhaled.

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

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Reproductive toxicity

: May damage fertility. May damage the unborn child.

Specific target organ toxicity (single

exposure)

: Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard

: Not classified

Potential adverse human health effects

and symptoms

: Harmful if swallowed. Harmful in contact with skin.

SECTION 12: Ecological information

12.1. **Toxicity**

No additional information available

Persistence and degradability 12.2.

No additional information available

Bioaccumulative potential 12.3.

No additional information available

12.4. **Mobility in soil**

No additional information available

Results of PBT and vPvB assessment 12.5.

CELLOSOLVE ACETATE FOR SYNTHESIS (111-15-9)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

Product/Packaging disposal

: Dispose of contents/container to ...

recommendations Additional information

: Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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14.1. UN number

UN-No. (ADR) : 1172 UN-No. (IMDG) : 1172 UN-No.(IATA) : 1172 UN-No.(ADN) : 1172 UN-No. (RID) : 1172

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE
Proper Shipping Name (IMDG) : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE
Proper Shipping Name (IATA) : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE
Proper Shipping Name (ADN) : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE
Proper Shipping Name (RID) : ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

Transport document description (ADR) : UN 1172 ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3, III, (D/E)
Transport document description (IMDG) : UN 1172 ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3, III (51°C c.c.)

Transport document description (IATA) : UN 1172 ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3, III

Transport document description (ADN) : UN 1172 ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3, III

Transport document description (RID) : UN 1172 ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3

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RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container : T2

instructions (ADR)

Portable tank and bulk container special : TP1

provisions (ADR)

Tank code (ADR): LGBFVehicle for tank carriage: FLTransport category (ADR): 3Special provisions for carriage - Packages: V12

(ADR)

Special provisions for carriage - Operation : S2

(ADR)

Hazard identification number (Kemler No.) : 30

Orange plates

30 1172

Tunnel restriction code (ADR) : D/E EAC code : •2Y

- Transport by sea

Limited quantities (IMDG) : 5 L

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: E1 Excepted quantities (IMDG)

Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 : T2 Tank instructions (IMDG) : TP1 Tank special provisions (IMDG) EmS-No. (Fire) : F-E : S-D EmS-No. (Spillage) Stowage category (IMDG) : A Flash point (IMDG) : 51°C c.c.

MFAG-No : 129

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity : 10L

(IATA)

PCA packing instructions (IATA) : 355 PCA max net quantity (IATA) : 60L CAO packing instructions (IATA) : 366 CAO max net quantity (IATA) : 220L ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1 : 5 L Limited quantities (ADN) Excepted quantities (ADN) : E1 Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A : VE01 Ventilation (ADN) Number of blue cones/lights (ADN) : 0

- Rail transport

: F1 Classification code (RID) Limited quantities (RID) : 5L : E1 Excepted quantities (RID)

Packing instructions (RID) : P001. IBC03. LP01. R001

Mixed packing provisions (RID) : MP19 Portable tank and bulk container : T2

instructions (RID)

Portable tank and bulk container special : TP1

provisions (RID)

Tank codes for RID tanks (RID) : LGBF Transport category (RID) : 3 Special provisions for carriage – Packages : W12

(RID)

Colis express (express parcels) (RID) : CE4 Hazard identification number (RID) : 30

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

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2-Ethoxyethyl acetate is on the REACH Candidate List CELLOSOLVE ACETATE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 2, hazardous to water (KBwS-Beschluss; WGK No 106)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Class for fire hazard : Class II-1 Store unit : 5 liter

Classification remarks : R10 <H226;H302+H312+H332;H360FD>; Emergency management guidelines for

the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
|---------------------------|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 1A | Reproductive toxicity, Category 1A |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H332 | Harmful if inhaled |
| H360FD | May damage fertility. May damage the unborn child |
| R10 | Flammable |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed |
| R60 | May impair fertility |
| R61 | May cause harm to the unborn child |

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| Xn | Harmful |
|----|---------|

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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