

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reference number: 03716
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Substance

Trade name 2-ETHOXYETHANOL EXTRA PURE

IUPAC name 2-Ethoxyethan-1-ol EC Index-No. 603-012-00-X EC-No. 203-804-1 CAS-No. 110-80-5 Product code 03716 Solvents Type of product C4H10O2 Formula

Chemical structure CH₃CH₂OCH₂CH₂OH

: Cellosolve, Ethylene glycol ethyl ether, Oxitol, Ethyl Cellosolve, EGEE Synonyms

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture Solvents

> 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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

H226 Flammable liquids, Category 3 Acute toxicity (oral), Category 4 H302 H331 Acute toxicity (inhal.), Category 3 H360FD Reproductive toxicity, Category 1B

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May damage fertility or the unborn child. Toxic if inhaled. Harmful if swallowed.

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2.2. Label elements

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

Hazard pictograms (CLP)







GHS02

GHS06

GHS08

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.

H302 - Harmful if swallowed. H331 - Toxic if inhaled.

H360FD - May damage fertility. May damage the unborn child.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.

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

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do

NOT induce vomiting.

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 Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Mono-constituent Substance type Name 2-ETHOXYETHANOL

CAS-No. 110-80-5 EC-No. 203-804-1 EC Index-No. 603-012-00-X

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing. Call a doctor.

First-aid measures after skin contact Immediately call a POISON CENTER/doctor. Wash with plenty of water/.... Wash

> contaminated clothing before reuse. Rinse skin with water/shower. Take off immediately all contaminated clothing.

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/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.

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

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

: Harmful if inhaled. Symptoms/effects after inhalation

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Symptoms/effects after skin contact : Harmful in contact with skin. Symptoms/effects after ingestion : Harmful if swallowed.

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

Treat symptomatically.

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.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

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

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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 open flames.

No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Only

qualified personnel equipped with suitable protective equipment may intervene. Avoid

breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective

equipment as required. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into

suitable containers. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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

: Avoid contact with skin and eyes. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.

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. Separate working clothes from town clothes. Launder separately. Always wash hands after handling the product.

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.

Storage conditions

: Keep container tightly closed. Keep in fireproof place. Store in a well-ventilated place. Keep

cool. Store locked up.

Incompatible materials

: Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

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8.2.2.2. Skin protection

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Clear liquid.Molecular mass: 90.12 g/molColour: Colourless.

Odour Codour threshold : mild pleasant odor.

Odour threshold : No data available pH : Neutral at 20 °C

Relative evaporation rate (butylacetate=1) : 0.32

Melting point : Not applicable Freezing point : -70 °C
Boiling point : 135 °C
Flash point : 44 °C

Auto-ignition temperature : 235 °C at 1.013 hPa
Decomposition temperature : No data available
Flammability (solid, gas) : Flammable

Flammable liquid and vapour, Not applicable

Vapour pressure : 4 mm Hg at 20°C

Relative vapour density at 20 °C : 3.1 (Air = 1.0)

Relative density : No data available

Density : 0.93 g/cm³ at 25 °C

Solubility : Water: Completely miscible

Partition coefficient n-octanol/water (Log Pow) : 0.32 - Bioaccumulation is not expected., (ECHA)

Viscosity, kinematic : 1.978 mm²/s
Viscosity, dynamic : 1.84 cP at 25 °C
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 0.018 – 0.14 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.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Open flame. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

Respiratory or skin sensitisation

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Toxic if inhaled.
Skin corrosion/irritation : Not classified
pH: Neutral at 20 °C

Serious eye damage/irritation : Not classified pH: Neutral at 20 °C

: Not classified: Not classified

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility. May damage the unborn child.

STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

2-ETHOXYETHANOL EXTRA PURE (110-80-5)

Viscosity, kinematic 1.978 mm²/s

Potential adverse human health effects and : Harmful if swallowed, Harmful in contact with skin.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2-ETHOXYETHANOL EXTRA PURE (110-80-5)

Partition coefficient n-octanol/water (Log Pow) 0.32 - Bioaccumulation is not expected., (ECHA)

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

2-ETHOXYETHANOL EXTRA PURE (110-80-5)

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

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

Additional information

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Handle empty containers with care because residual vapours are flammable. Flammable

vapours may accumulate in the container.

SECTION 14: Transport information

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

14.1 UN number

 UN-No. (ADR)
 : UN 1171

 UN-No. (IMDG)
 : UN 1171

 UN-No. (IATA)
 : UN 1171

 UN-No. (ADN)
 : UN 1171

 UN-No. (RID)
 : UN 1171

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ETHYLENE GLYCOL MONOETHYL ETHER Proper Shipping Name (IMDG) : ETHYLENE GLYCOL MONOETHYL ETHER

Proper Shipping Name (IATA) : Ethylene glycol monoethyl ether

Proper Shipping Name (ADN) : ETHYLENE GLYCOL MONOETHYL ETHER
Proper Shipping Name (RID) : ETHYLENE GLYCOL MONOETHYL ETHER

Transport document description (ADR) : UN 1171 ETHYLENE GLYCOL MONOETHYL ETHER, 3, III, (D/E)
Transport document description (IMDG) : UN 1171 ETHYLENE GLYCOL MONOETHYL ETHER, 3, III (40°C c.c.)

Transport document description (IATA) : UN 1171 Ethylene glycol monoethyl ether, 3, III

Transport document description (ADN) : UN 1171 ETHYLENE GLYCOL MONOETHYL ETHER, 3, III

Transport document description (RID) : UN 1171 ETHYLENE GLYCOL MONOETHYL ETHER, 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

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Danger labels (IMDG) : 3



IATA

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



ADN

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



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) : 5I
Excepted quantities (ADR) : E1

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

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions : TP1

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30

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Orange plates :

30 1171

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

Transport by sea

: 5 L Limited quantities (IMDG) Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T2 Tank special provisions (IMDG) : TP1 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-D Stowage category (IMDG) : A Flash point (IMDG) : 40°C c.c.

Properties and observations (IMDG) : Colourless liquid. Flashpoint: 40°C c.c. Explosive limits: 1.7% to 15.6% Miscible with

water.

MFAG-No : 127

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L 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
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

Rail transport

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

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

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T2
Portable tank and bulk container special provisions : TP1

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3(a)	2-ETHOXYETHANOL EXTRA PURE	
3(b)	2-ETHOXYETHANOL EXTRA PURE	
30.	2-ETHOXYETHANOL EXTRA PURE	
40.	2-ETHOXYETHANOL EXTRA PURE	

REACH Annex XIV (Authorisation List)

2-ETHOXYETHANOL EXTRA PURE is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

2-Ethoxyethanol is on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

2-ETHOXYETHANOL EXTRA PURE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

2-ETHOXYETHANOL EXTRA PURE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

2-ETHOXYETHANOL is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 5058).

Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must

be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the

shipping route (according to § 10).

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

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed SZW-lijst van reprotoxische stoffen – : 2-ETHOXYETHANOL is listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : 2-ETHOXYETHANOL is listed

Denmark

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

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Classification remarks

: R10 <H226;H302;H331;H360FD>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	

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Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H331	Toxic if inhaled.	
H360FD	May damage fertility. May damage the unborn child.	
Repr. 1B	Reproductive toxicity, Category 1B	

Safety Data Sheet (SDS), EU

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.