2-ETHYL-1,3-HEXANEDIOL

Safety Data Sheet

Supersedes: 12/12/2023 Revision: 1.3 Revision date: 03/11/2025

SECTION 1: Identification

1.1 Identification

Product form	:	Substance
Substance name	:	2-Ethyl-1,3-Hexanediol
CAS No	:	94-96-2
EC/ List No	:	202-377-9
Formula	:	$C_8H_{18}O_2$
Molecular weight	:	146.23 g/mol
Synonyms	:	Ethyl hexylene glycol, Octylene glycol

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

Use of the substance/mixture	:	Manufacture of substances, processing aid, and solvent
Relevant identified uses	:	Intermediate
Uses advised against:	:	Not known

1.3 Details of the supplier of the safety data sheet

Godavari Biorefineries Ltd.
45/47, Somaiya bhavan,
Mahatma Gandhi Road,
Fort, Mumbai -400001, INDIA.
T 0091 22 22048272
Email: alka@somaiya.com
www.somaiya.com

1.4 Emergency telephone Number

Emergency number	:	0091 2423 279308 0091 22 22048272 (Monday – Friday - 09.30 hrs. to 18.00 hrs.)

SECTION 2: Hazard(s) identification

GHS classification

2.1 Classification of the substance or mixture

Serious eye damage (Category 1)	:	H 318

2.2 GHS labeling

Hazard pictograms (GHS) :

GHS 05

Signal word (GHS)	:	Danger
Hazard statements (GHS)	:	H318 - Causes serious eye damage
Precautionary statements (GHS)		
P280	:	Wear protective gloves, protective clothing, eye protection, face protection
P305+P351+P338	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.
P310	:	Immediately call a POISON CENTER / doctor
Supplemental Hazard information:	:	None

2.3 Other hazards

Not available.

2.4 Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/Information on ingredients

3.1 Substance

Name	Product Identifier CAS No. EC No.	Concentration %	GHS Classification
2-Ethyl-1,3-hexanediol	94-96-2 202-377-9	Minimum 98	Eye Dam. 1, H318

Full text of hazard classes and H-statements: see section 16

3.2 Mixture

Not applicable.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information : In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing

Inhalation : Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

Skin contact : Wash off immediately with soap and water.

Eye contact : Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing,

Ingestion : Seek medical advice immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

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 : Dry powder, Foam, Water spray, Carbon dioxide (CO2)

Unsuitable extinguishing media : No data available

5.2 Special hazards arising from the substance or mixture

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

Firefighting instructions : Use self-contained breathing apparatus. Wear protective clothing.

5.4 Additional information

Cool endangered containers with water spray jet.

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. Wear personal protective equipment.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g., sand, kieselguhr, universal binder).

6.4 Reference to other sections

For personal protection see section.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling : Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and dry in a cool, well-ventilated place. Recommended storage temperature is less than 30 °C. Requirements for storage rooms and vessels: Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one. Advice on storage assembly: Do not store together with Oxidizing agents.

7.3 Specific end uses

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits:

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Material should be handled safely.

Personal protective equipment :

Protective goggles. Gloves. Protective clothing. Face shield. Gas mask with filter.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: Butyl Rubber. Polyethylene/Ethylene Vinyl Alcohol. Viton. GIVE GOOD RESISTANCE: Neoprene. GIVE LESS RESISTANCE: Natural Rubber. PVC. GIVE POOR RESISTANCE: Polyethylene. PVA.

Hand protection	:	Gloves.
Eye protection	:	Safety glasses.
Skin and body protection	:	Head/neck protection. Corrosion-proof clothing.
Respiratory protection	:	Wear gas mask with filter type A if conc. in air > exposure limit. High vapour/ gas concentration: self-contained respirator.
Thermal hazard protection	:	None.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear Colourless Liquid
Colour	:	Colourless
Odour	:	No Data Available
pH	:	No Data Available
Melting point / Freezing point	:	-40°C
Initial boiling point/boiling range	:	241-249 °C at 1.013 hPa
Flash Point	:	129 °C – closed cup
Relative evaporation rate	:	No Data Available
Relative density	:	0.930-0.945 g/mL at 25 °C
Relative vapour density at 20°C	:	No Data Available
Specific gravity/ density	:	No Data Available
Molecular mass	:	146.23 g/mol
Flammability(Solid, Gas)	:	No Data Available
Upper/lower flammability or Explosive limit	:	No Data Available
Solubility	:	Easily soluble in ethanol, isopropanol, propylene glycol
Vapor pressure	:	1.33 Pa at 20°C
Vapour density	:	No Data Available
Evaporation Rate	:	No Data Available
Partition coefficient n-octanol/water	:	log Pow: 3.63 at 20°C
Auto-ignition temperature	:	320 ^{0}C at 101.3 kPa
Decomposition temperature	:	No Data Available
Viscosity	:	323 mPa.s (20°C)
Explosive Limits	:	No Data Available
Oxidizing properties	:	No Data Available

9.2 Other information

No Data Available.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	Forms explosive mixture with air on intense heating
10.2 Chemical Stability	:	Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	:	No Data Available
10.4 Conditions to avoid	:	Keep away from heat and sources of ignition
10.5 Incompatible materials	:	Oxidizing agents, Peroxides, Acids and bases
10.6 Hazardous decomposition products	:	Carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

LD50 oral toxicity	:	9281 mg/kg body weight (Rat)
LD50 dermal toxicity	:	10251 mg/kg body weight (Rabbit)
LC50 inhalation toxicity	:	3.8 mg/l body weight (Rabbit)
Skin corrosion/irritation	:	Irritant
Serious eye damage/irritation	:	Severe eye irritation
Respiratory or skin sensitization	:	Irritant
Germ cell mutagenicity	:	No data available
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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Teratogenicity	:	No data available
Reproductive toxicity	:	No data available
Specific target organ toxicity (single exposure)	:	No data available
Specific target organ toxicity (repeated exposure)	:	No data available
Aspiration hazard	:	No data available
Signs and Symptoms of Exposure	:	Not data available
Synergistic effects	:	Not data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to Fish LC50	:	624 mg/l channel catfish fingerlings 96 h
Toxicity to aquatic invertebrates LC50	:	100 mg/l Daphania magna 48 h

12.2 Persistence and degradability

Likely to be biodegradable 93% degradation at 28 d but failed the 10-day window

12.3 Bio accumulative potential

No Data Available.

12.4 Mobility in soil

No Data Available.

12.5 Results of PBT and vPvB assessment

No Data Available.

12.5 Other adverse effects

No Data Available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal	:	Offer surplus and non-recyclable solutions to a licensed disposal company.
Packaging:	:	Dispose of as unused product.

SECTION 14: Transport Information

Marine transport (IMDG)

UN number	:	Not dangerous goods
Proper shipping name and description	:	2-Ethyl-1,3-hexanediol
Class	:	-
Packaging group	:	Not dangerous goods
Hazard Identification Number	:	-
EmS code	:	-
Marine pollutant	:	No

Air transport ICAO/IATA

UN number	:	Not dangerous goods
Proper shipping name and description	:	2-Ethyl-1,3-hexanediol
Class	:	-
Packaging group	:	Not dangerous goods
Hazard Labels	:	-
Environmentally hazardous	:	No

Department of Transportation (DOT)

UN number	:	Not dangerous goods
Proper shipping name and description	:	2-Ethyl-1,3-hexanediol
Class	:	-
Packaging group	:	Not dangerous goods
Reportable Quantity (RQ)	:	Not applicable
Poison Inhalation Hazard	:	No
Hazard labels (DOT)	:	Not applicable

SECTION 15: Regulatory information

15.1 National regulations

Country	National Inventories	Listing
CANADA	DSL	Listed
CHINA	IECSC	Listed
JAPAN	ENCS	Listed
PHILIPPINES	PICCS	Listed
SOUTH KOREA	KECI	Listed
USA	TSCA	Listed

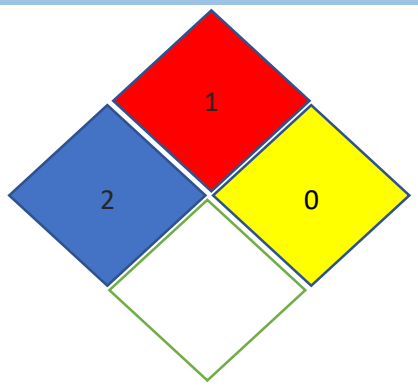
SECTION 16: Other information

16.1 Hazard Statement :

H318 : Causes serious eye damage

16.2 NFPA Rating

:



16.3 Abbreviations and acronyms

: PBT =Persistent Bioaccumulative and Toxic
vPvB= Very Persistent and Very Bioaccumulative
SCBA= Self Contained Breathing Apparatus
NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit
OSHA PEL=Occupational Safety and Health Adminstration Permissible Exposure Limit
OELTWA= Occupational Exposure Limit Time Weighted Averages
IDLH= Immediately Dangerous to Life or Health
UEL= Upper Explosive Limit
LEL= Lower Explosive Limit
RTECS= Registry of Toxic Effects of Chemical Substances
NTP=National Toxicology Programm
IARC= International Agency for Research on Cancer
EPA=Environmental Protection Agency
TSCA= Toxic Substances Control Act

NFPA= National Fire Protection Association
CSR=Chemical Safety Report
BCF = Bio Concentration Factor
DNEL = Derived No Effect Level
PNEC = Predicted No Effect Concentration
TLV = Threshhold Limit Value
ACGIH = American Conference of Governmental Industrial Hygienist
REACH = Registration, Evaluation .Authorisation and Restriction of Chemicals
CLP = Classification, Labelling and Packaging
LD / LC = Lethal Doses / Lethal Concentration
GHS = Globally Harmonised System
ADR = Accord europeen relative au transport international de marchandises
IMDG-Code = International Maritime Code for Dangerous Goods
EmS = Emergency measures on Sea
ICAO = International Civil Aviation Organization
IATA/DGR= International Air Transport Association/Dangerous Goods Regulation.

16.4 Further information:

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