



Material Safety Data Sheet for Ethylhexylglycerin

Section 1: Identification of substance

Product name: Ethylhexylglycerin

CAS#: 70445-33-9

Chemical formula: C₁₁H₂₄O₃

Manufacturer/Supplier:

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Section 2: Composition/Data on components

Composition: 3-(2-ethylhexyloxy)propane-1,2-diol (CAS#: 70445-33-9): 100%

EINECS number: 408-080-2

Section 3: Hazards identification

Material description: Colourless liquid. nearly odourless.

Hazard description:

Causes serious eye damage (H318).

Harmful if inhaled (H332).

Harmful to aquatic life with long lasting effects (H412).

Information pertaining to particular dangers for man and environment:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 4: First aid measures

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

After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

After serious inhalation:

Immediately call a doctor/physician.

After skin contact:

Not available.

After serious skin contact:

Not available.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 5: Fire fighting measures

Suitable extinguishing agents:

Carbon dioxide or extinguishing powder. Fight larger fires with alcohol resistant foam.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released: Carbon monoxide and carbon dioxide.

Protective equipment:

In the event of fire, wear self-contained breathing apparatus.

Section 6: Accidental release measures

Person-related safety precautions:

Use personal protective equipment.

Measures for environmental protection:

Do not flush into surface water. Avoid subsoil penetration.

Measures for cleaning/collecting:

Wipe up with absorbent material (e.g. cloth, fleece).

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Additional information:

See Section 13 for disposal information.



Section 7: Handling and storage

Handling:

Information for safe handling:

Handle and open container with care.

Information about protection against explosions and fires:

The hot product gives off combustible vapours.

With hot product, remove all potential sources of ignition and take precautionary measures against static discharges.

Storage:

Requirements to be met by storerooms and receptacles:

Store in original container.

Further information about storage conditions:

Keep container tightly closed.

Avoid product residues from /on the storage containers. Limited stability - see label on pack.

Section 8: Exposure controls and personal protection

Personal protection equipment:

General protective and hygienic measures:

Take off all contaminated clothing immediately.

Avoid contact with eyes.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands:

Impervious gloves.

Splash protection: disposable nitrile rubber gloves.

Prolonged contact: Butyl rubber gloves.

Eye protection:

Tightly fitting safety goggles.

Environmental exposure controls:

General advice:

Do not flush into surface water. Avoid subsoil penetration.

Section 9: Physical and chemical properties

General Information: Colourless liquid.

Odor: Nearly odourless.

Molecular weight: 204.31g/mole.

Melting point/Melting range: <-76°C

Boiling point/Boiling range: 145°C, 9hPa

Flash point: 152°C, ASTM D 93

Decomposition temperature: Not available.

pH: 6.0~8.0, Concentration: 1.80g/L, 20°C

Vapour pressure: 0.003hPa, 20°C

Ignition temperature: 250°C, DIN 51794

Density: 0.95~0.96g/ml, 20°C

Viscosity, dynamic: 144mPa*s, 20°C, Brookfield

Partition coefficient (n-octanol/water): log Pow: 2.53, 20°C, OECD Test Guideline 107

Danger of explosion: Product does not present an explosion hazard.

Water solubility: 1.8g/L, 22°C

Section 10: Stability and reactivity

Stability:

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Protect from frost, heat and sunlight.

Polymerization:

Not available.

Dangerous reactions:

No dangerous reactions know.

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide.



Section 11: Toxicological information

Acute oral toxicity: LD₅₀: > 2000 mg/kg, rat, OECD Test Guideline 401
Acute inhalation toxicity: LC₅₀: 3.07 mg/L, rat, OECD Test Guideline 403
Acute dermal toxicity: LD₅₀: > 2000 mg/kg, rat, OECD Test Guideline 402
Skin irritation: Mildly irritant - does not need to be labelled, OECD Test Guideline 404
Eye irritation:
 Risk of serious damage to eyes., OECD Test Guideline 405, Test substance: concentrate
 Mildly irritant - does not need to be labelled, OECD Test Guideline 405, Test substance: 5% solution
Sensitisation: Did not cause sensitisation on laboratory animals., OECD Test Guideline 406
Genotoxicity:
in vitro: Not mutagenic in Ames Test., OECD 471
in vivo: Micronucleus test: not mutagenic, OECD 474
Teratogenicity: rat, Oral, NOAEL: 800mg/kg, OECD Test Guideline 414
Repeated dose toxicity:
 OECD Test Guideline 407, The "No toxic effect level" during oral application with rats over a 28 day period is 100mg/kg/day. A NOEL cannot be defined.
 rat, Oral, Exposure time: 90-days, NOAEL: 50mg/kg

Section 12: Ecological information

Toxicity:
Toxicity to fish: LC₅₀: 60.2 mg/l, Brachidanio rerio
Toxicity to daphnia and other aquatic invertebrates:
 EC₅₀: 89.6 mg/L, 24 h, Daphnia magna
 EC₅₀: 78.3 mg/L, 48 h, Daphnia magna
Toxicity to algae: IC₅₀: 48.3 mg/l, 72h, Desmodesmus subspicatus (green algae)
Toxicity to bacteria EC₅₀: 560mg/L, OECD 209
Toxicity to fish (Chronic toxicity): NOEC: 1.5 mg/L, 35d, Brachidanio rerio, OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC: 20mg/L, 21d, Daphnia magna (Water flea), OECD Test Guideline 211
Persistence and degradability:
Biodegradability: According to OECD criteria, the product is inherently biodegradable., OECD 302B/ ISO 9888/ EEC 88/302C
Bioaccumulative potential:
Partition coefficient: noctanol/water: log Pow: 2.53 at 20°C. Method: OECD Test Guideline 107
Mobility in soil:
Mobility: Not available.
Results of PBT and vPvB assessment
Assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
Other adverse effects
Adsorbed organic bound halogens (AOX): Product does not contain any organic halogens.

Section 13: Disposal considerations

Product:
 Dispose of as special waste in compliance with local and national regulations.
 Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.
Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste key for the unused product(Group): The waste producer itself must, in consultation with the appropriate authorities and a waste disposal company, obtain a waste code from the EWC (European Waste Catalogue).

Section 14: Transport information

General notes: Not a hazardous material for transportation.
DOT regulations:
Hazard class: None
Land transport ADR/RID (cross-border):
ADR/RID class: None
Maritime transport IMDG:
IMDG class: None
Air transport ICAO-TI and IATA-DGR:
ICAO/IATA class: None
Transport/Additional information: Not dangerous according to the above specifications.

**Section 15: Regulations**

Product related hazard informations: Observe the general safety regulations when handling chemicals.

National regulations:

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

Some or all of the components of this product are not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

The national regulations of this product are not available in other countries.

Information about limitation of use: For use only by technically qualified individuals.

Section 16: Other information

Creat date: 11/18/2016 by [Hubei Artec Biotechnology Co.,Ltd.](http://www.artec.cc)

The above information according to part of Regulation (EC) No.1907/2006

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Any other information please consult Hubei Artec Biotechnology Co.,Ltd.