

SAFETY DATA SHEET

2-ETHYLHEXANOL

Revision Date 28/12/2018



1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name

2-Ethylhexanol

Details of the supplier of the safety data sheet

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2 - HAZARDS IDENTIFICATION

Emergency Overview**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 4), H227

Acute toxicity, Inhalation (Category 4), H332

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Acute aquatic toxicity (Category 3), H402

GHS Label elements, including precautionary statements**Pictogram****Signal word**

Warning

Hazard statements

H227 - Combustible liquid.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H402 - Harmful to aquatic life.

Precautionary statements

Prevention

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 - Wash skin thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves / protective clothing / eye protection / face protection.

Response

- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 - Specific treatment (see supplemental first aid instructions on this label).
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up.

Disposal

- P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Dispose of contents and container to an approved waste disposal plant.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: Isooctyl alcohol

Molecular Formula: C₈H₁₈O

Molecular Weight: 130.23 g/mol

CAS#: 104-76-7

EC-No.: 203-234-3

Concentration: 100%

4 - FIRST AID MESURES

General advice

- Consult a physician. Show this safety data sheet to the doctor in attendance.
- Move out of dangerous area. Remove contaminated clothing.

If inhaled

- If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- Treat symptomatically. If symptoms persist, call a physician.

In case of skin contact

- Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
- Wash contaminated clothing before re-use. Get medical attention.
- Thoroughly clean shoes before re-use. If necessary, call a poison center or physician.

In case of eye contact

- Remove contact lenses, if present and easy to do. Immediately flush eyes with plenty of water.

Continue to rinse for at least 20 minutes. Get medical attention.

If swallowed

DO NOT induce vomiting. Never give anything by mouth to an unconscious person.
Rinse mouth with water. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media

No data available.

Special hazards during fire fighting

Water may be ineffective. The product will float on water and can be reignited on surface water.

Special hazards arising from the substance or mixture

No data available.

Hazardous thermal decomposition products

No data available.

Special protective actions for fire-fighters

No data available.

Advice for fire-fighters

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

Further information

Use water spray to cool unopened containers.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material(e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations.

After cleaning, flush away traces with water. Eliminate all ignition sources if safe to do so.
Keep in a suitable, closed containers for disposal.

7 - HANDLING AND STORAGE

Personal precautions

Safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Do not swallow.
Ensure adequate ventilation. Wash thoroughly after handling.
Keep away from sources of ignition - No smoking. Keep away from fire, sparks, and heated surfaces.
Take measures to prevent the build up of electrostatic charge.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store locked up.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Store class (TRGS 510): Combustible liquids.

Other advice

No further information available.

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Appropriate engineering controls

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

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.
Appropriate techniques should be used to remove potentially contaminated clothing.
Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NOISH (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. 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 a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of 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.
Discharge into the environment must be avoided.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: liquid
Color: colorless to light yellow
Odor: musty
Odor threshold: 0.07ppm

Safety data

pH: no data available
Melting point/freezing point: -76 ~ -70°C
Initial boiling point and boiling range: 183-186°C
Flash point: 73.3°C - closed cup
Relative density: 0.833 at 20°C
Viscosity: Kinematic no data available
Ignition temperature: no data available
Lower explosion limit: 0.88%(v)
Upper explosion limit: 9.70%(v)
Partition coefficient(n-octanol/water): log Pow: 2.9 at 25°C
Water solubility: 0.1g/l at 20°C
VOC (w/w): no data available

10 - STABILITY AND REACTIVITY

Storage stability

No data available.

Chemical stability

Stable under recommended storage conditions.

Reactivity

No data available.

Possibility of hazardous reactions

Hazardous decomposition products formed under fire conditions.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents, strong acids.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Carbon monoxide.
Other decomposition products - no data available.

11 - TOXICOLOGICAL INFORMATION

Primary routes of exposure

No data available.

Acute toxicity: HARMFUL IF INHALED.

LD50 Oral - rat - 3730 mg/kg

Remarks: Brain and Coverings: Recordings from specific areas of CNS. Behavioral: Somnolence (general depressed activity). Lungs, Thorax, or Respiration: Dyspnea.

LD50 Dermal - Rat - >3000 mg/kg (OECD Test Guideline 402)

Skin corrosion / irritation

Skin - rabbit - Skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage / eye irritation

Eyes - rabbit - Moderate eye irritation - 24 h

Respiratory or skin sensitization

No data available.

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 a 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 on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available.

Aspiration hazard

No data available.

Subacute to chronic toxicity

No data available.

Additional Information

No data available.

12 - ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish LC50 - *Leuciscus idus* (Golden orfe) - 17.1 mg/l - 96 h

Toxicity to fish NOEC - *Leuciscus idus* (Golden orfe) - 14 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - *Daphnia magna* (Water flea) - 39 mg/l - 48 h

Toxicity to algae Growth inhibition EC50 - *Chlorella emersonii* - 10 - 50 mg/l - 48 h

Persistence and degradability

No data available.

Biodegradability

Result: - Readily biodegradable (OECD Test Guideline 301C).

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

PBT and vPvB conclusion

No data available.

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

13 - DISPOSAL CONSIDERATIONS**Product**

This combustible material may be burned in a chemical incinerator equipped with an after burner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14 - TRANSPORT INFORMATION**IMDG**

Not a dangerous goods

IATA

Not a dangerous goods

15 - REGULATORY INFORMATION

Safety, health and environmental regulations

No data available.

Safety assessment

No chemical safety assessment.

16 - OTHER INFORMATION

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