

# Safety Data Sheet

## 2-ETHYLHEXANOL

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### 1. Identification

**Product identifier used on the label**

**2-ETHYLHEXANOL**

**Recommended use of the chemical and restriction on use**

Recommended use\*: Chemical

Recommended use\*: Chemical

Unsuitable for use: Not intended for sale to or use by the general public.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

**Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

Molecular formula: C(8)H(18)O

Chemical family: alcohols

Synonyms: 1-Hexanol,2-Ethyl  
2-Ethylhexyl Alcohol

### 2. Hazards Identification

According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

**Classification of the product**

Flam. Liq.  
Eye Irrit.

4  
2A

Flammable liquids  
Eye irritation

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|                 |                                      |  |
|-----------------|--------------------------------------|--|
| STOT SE         | 3 (irritating to respiratory system) | Specific target organ toxicity — single exposure |
| Aquatic Acute   | 3                                    | Hazardous to the aquatic environment - acute     |
| Acute Tox.      | 4 (Inhalation - mist)                | Acute toxicity                                   |
| Skin Irrit.     | 2                                    | Skin irritation                                  |
| Aquatic Chronic | 3                                    | Hazardous to the aquatic environment - chronic   |

### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

|      |  |
|------|--|
| H227 | Combustible liquid.                                |
| H319 | Causes serious eye irritation.                     |
| H315 | Causes skin irritation.                            |
| H332 | Harmful if inhaled.                                |
| H335 | May cause respiratory irritation.                  |
| H402 | Harmful to aquatic life.                           |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

|      |  |
|------|--|
| P271 | Use only outdoors or in a well-ventilated area.  |
| P280 | Wear protective gloves and eye protection or face protection.                                  |
| P261 | Avoid breathing mist.  |
| P280 | Wear eye protection.   |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P273 | Avoid release to the environment.  |
| P261 | Avoid breathing mist or vapour or spray.   |
| P264 | Wash contaminated body parts thoroughly after handling.  |

Precautionary Statements (Response):

|                    |  |
|--------------------|--|
| P312               | Call a POISON CENTER or physician 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. |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.  |
| P332 + P313        | If skin irritation occurs: Get medical attention.  |
| P337 + P313        | If eye irritation persists: Get medical attention.   |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.   |
| P370 + P378        | In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.   |

Precautionary Statements (Storage):

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

Precautionary Statements (Disposal):

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P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

No applicable information available.

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## 3. Composition / Information on Ingredients

### According to Regulation 2024 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

| 2-ethylhexan-1-ol  
| CAS Number: 104-76-7  
| Content (W/W): > 99.5 - <= 100.0%  
| Synonym: 2-Ethylhexanol

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Immediate medical attention required.

#### If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

#### If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention.

#### If swallowed:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

### Most important symptoms and effects, both acute and delayed

Symptoms: Overexposure may cause:, headache, dizziness, coordination disorder, coma, respiratory disorders

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

### Indication of any immediate medical attention and special treatment needed

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### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:  
water jet

Additional information:  
Use extinguishing measures to suit surroundings.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Special protective equipment for firefighters

### Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

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## 6. Accidental release measures

### Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

### Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

### Environmental precautions

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Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

### Conditions for safe storage, including any incompatibilities

Segregate from oxidizing agents. Segregate from acids and bases.

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Avoid extreme heat. Keep away from sources of ignition - No smoking. Keep container tightly closed and dry.

Keep under dry nitrogen. Blanket with nitrogen if the container is opened.

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## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

|                   |            |                   |
|-------------------|------------|-------------------|
| 2-ethylhexan-1-ol | ACGIH, US: | TWA value 5 ppm ; |
|-------------------|------------|-------------------|

### Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

### Personal protective equipment

#### Respiratory protection:

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

Wear a NIOSH-certified (or equivalent) organic vapour respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

#### Hand protection:

Chemical resistant protective gloves, nitrile rubber (Buna N)

#### Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### Body protection:

Body protection must be chosen based on level of activity and exposure.

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### General safety and hygiene measures:

Work place should be equipped with a shower and an eye wash. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Avoid contact with the skin, eyes and clothing. Wash soiled clothing immediately. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

|   |   |                             |
|---|---|-----------------------------|
| Physical state:                                     | liquid  |                             |
| Form:   | liquid  |                             |
| Odour:  | sweetish  |                             |
| Odour threshold:                                    | not determined  |                             |
| Colour:   | clear   |                             |
| pH value:   | neutral, of low solubility  |                             |
| Melting point:                                      | -89 °C  | (ASTM D97)                  |
| Freezing point:                                     | No data available.  |                             |
| Boiling point:                                      | 186 °C<br>( 1,013 hPa)  | (OECD Guideline 103)        |
| Boiling range:                                      | No data available.  |                             |
| Sublimation point:                                  | No applicable information available.  |                             |
| Flash point:  | 75 °C   | (closed cup)                |
| Flammability:                                       | Combustible liquid.   | (derived from flash point)  |
| Lower explosion limit:                              | 0.88 %(V)<br>Literature data. The lower explosion point may be 5 - 15 °C below the flash point. |                             |
| Upper explosion limit:                              | For liquids not relevant for classification and labelling.                                      |                             |
| Heat of Combustion:                                 | 40.60 kJ/g  |                             |
| Autoignition:                                       | 280 °C  | (Directive 92/69/EEC, A.15) |
| Vapour pressure:                                    | 0.93 hPa<br>( 20 °C)  | (OECD Guideline 104)        |
| Density:  | 0.832 g/cm <sup>3</sup><br>( 20 °C)   | (ASTM D4052)                |
| Relative density:                                   | 0.832<br>( 20 °C)   | (ASTM D4052)                |
| Relative vapour density:                            | 4.49<br>( 20 °C)<br>Heavier than air.   | (calculated)                |
| Partitioning coefficient n-octanol/water (log Pow): | 2.9<br>( 25 °C)   | (OECD Guideline 117)        |
| Self-ignition temperature:                          | not self-igniting   |                             |
| Thermal decomposition:                              | No data available.  |                             |
| Viscosity, dynamic:                                 | 9.845 mPa.s<br>( 20 °C)   |                             |
| Viscosity, kinematic:                               | No applicable information available.  |                             |
| Solubility in water:                                | 0.9 g/l<br>( 20 °C)   |                             |
| Solubility (quantitative):                          | No applicable information available.  |                             |
| Solubility (qualitative):                           | No applicable information available.  |                             |
| Molecular weight:                                   | 130.23 g/mol  |                             |
| Evaporation rate:                                   | No data available.  |                             |

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### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form.

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## 10. Stability and Reactivity

### **Reactivity**

When heated can give off ignitable vapours.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing. (other)

|                               |          |  |
|-------------------------------|----------|--|
| Formation of flammable gases: | Remarks: | Forms no flammable gases in the presence of water. |
|-------------------------------|----------|--|

### **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

### **Possibility of hazardous reactions**

No hazardous reactions if stored and handled as prescribed/indicated.

### **Conditions to avoid**

Avoid all sources of ignition: heat, sparks, open flame.

### **Incompatible materials**

strong oxidizing agents

oxidizing agents, organic acids, alkalies

### **Hazardous decomposition products**

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No data available.

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## 11. Toxicological information

### **Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### **Acute Toxicity/Effects**

#### Acute toxicity

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. Of moderate toxicity after short-term inhalation.

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If used as intended, this product is not expected to present a physical or health hazard.  
Of low toxicity after single ingestion. Of low toxicity after short-term skin contact. Of moderate toxicity after short-term inhalation.

### Oral

Type of value: LD50

Species: rat (male)

Value: 2,047 mg/kg (similar to OECD guideline 401)

### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 0,89 - <= 5,3 mg/l (similar to OECD guideline 403)

Exposure time: 4 h

An aerosol was tested.

### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 3,000 mg/kg (OECD Guideline 402)

### Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

### Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

### Skin

Species: rabbit

Result: Irritant.

Method: OECD Guideline 404

### Eye

Species: rabbit

Result: Irritant.

Method: OECD Guideline 405

Species: rabbit

Result: Irritant.

Method: OECD Guideline 405

### Sensitization

Assessment of sensitization: The substance did not cause skin sensitization in humans.

### Human Maximization Test

Species: human

Result: Non-sensitizing.

### Aspiration Hazard

not applicable

## **Chronic Toxicity/Effects**

### Repeated dose toxicity



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Assessment of repeated dose toxicity: No substance-specific organotoxicity was observed after repeated administration to animals.  
May cause liver and kidney damage.

### Genetic toxicity

Assessment of mutagenicity: No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals. The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not genotoxic in mammalian cell culture. The substance was not genotoxic in a test with mammals.

### Carcinogenicity

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by gavage, a carcinogenic effect was not observed.

### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Teratogenicity

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See SDS section 11 - Toxicological information.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Harmful to aquatic organisms based on long-term (chronic) toxicity study data. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Toxicity to fish

LC50 (96 h) 17.1 mg/l, *Leuciscus idus* (OECD 203; ISO 7346; 84/449/EWG, C.1, Flow through.)

#### Aquatic invertebrates

EC50 (48 h) 39 mg/l, *Daphnia magna* (Directive 84/449/EEC, C.2, static)  
Nominal concentration.

#### Aquatic plants

EC50 (72 h) 21.0 mg/l (growth rate), *Scenedesmus subspicatus* (Directive 88/302/EEC, part C, p. 89)  
Nominal concentration.

EC10 (72 h) 7.41 mg/l (growth rate), *Desmodesmus subspicatus* (Directive 88/302/EEC, part C, p. 89)  
Nominal concentration.

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### Chronic toxicity to fish

other (30 d) 0.278 mg/l, Brachydanio rerio (OECD Guideline 210, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

### Chronic toxicity to aquatic invertebrates

EC10 (21 d) 1.53 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

The statement of the toxic effect relates to the analytically determined concentration.

### Assessment of terrestrial toxicity

No data available concerning terrestrial toxicity.

## **Microorganisms/Effect on activated sludge**

### Toxicity to microorganisms

No data available.

## **Persistence and degradability**

### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

### Elimination information

79 - 99.9 % BOD of the ThOD (14 d) (OECD 301C; ISO 9408; 92/69/EWG, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))

### Assessment of stability in water

No data available.

### Information on Stability in Water (Hydrolysis)

No data available.

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

Significant accumulation in organisms is not to be expected.

### Bioaccumulation potential

No data available.

## **Mobility in soil**

### Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

## **Additional information**

Adsorbable organically-bound halogen(AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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### 13. Disposal considerations

**Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations.

**Container disposal:**

Disposal must be made according to official regulations.

### 14. Transport Information

**Land transport**

USDOT

Classified as combustible liquid in containers greater than 119 gallons.

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

**Further information**

The following classification applies when exceeding 119 gallons.

Land Transport USDOT: NA 1993 COMBUSTIBLE LIQUID, N.O.S. (2-ETHYLHEXAN-1-OL) PG III.

### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical TSCA, US

All substances are TSCA listed and active.

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

**State regulations**

**State RTK**

PA

**CAS Number**

104-76-7

**Chemical name**

2-ethylhexan-1-ol

**NFPA Hazard codes:**

Health: 2 Fire: 2 Reactivity: 0 Special:

**Assessment of the hazard classes according to UN GHS criteria (most recent version):**

Aquatic Acute  
Skin Irrit.

3  
2

Hazardous to the aquatic environment - acute  
Skin irritation

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|                 |                                      |  |
|-----------------|--------------------------------------|--|
| Eye Irrit.      | 2A                                   | Eye irritation                                   |
| Flam. Liq.      | 4                                    | Flammable liquids                                |
| Acute Tox.      | 5 (oral)                             | Acute toxicity                                   |
| STOT SE         | 3 (irritating to respiratory system) | Specific target organ toxicity — single exposure |
| Acute Tox.      | 4 (Inhalation - mist)                | Acute toxicity                                   |
| Aquatic Chronic | 3                                    | Hazardous to the aquatic environment - chronic   |

### 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2025/10/17

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