

# 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 Mexicana S.A. de C.V.  
Av. Insurgentes Sur 975  
Col. CD. De Los Deportes,  
C.P. 03710 Ciudad de México  
MÉXICO

Telephone: +52 55 5325 2600

#### Emergency telephone number

##### 24 Hour Emergency Response Information

SETIQ: 1800-00-214-(Rep. Mexicana) or 55-59-15-88 (CDMX)

Telephone: +1-800-849-5204 or +1-833-229-1000

#### Other means of identification

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

Synonyms: 1-Hexanol, 2-Ethyl

2-Ethylhexyl Alcohol

### 2. Hazards Identification

#### According to Regulation NOM-018-STPS-2015

#### Classification of the product

Flam. Liq.

4

Flammable liquids

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Eye Irrit.	2A	Eye irritation
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 NOM-018-STPS-2015

| 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:  
Wear a self-contained breathing apparatus. 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

Discharge into the environment must be avoided.

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

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## 8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

### 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.

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1), Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1); nitrile rubber (NBR) - 0.4 mm coating thickness, Manufacturer's directions for use should be observed because of great diversity of types., Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

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### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

## 9. Physical and Chemical Properties

Physical state:	liquid	
Form:	liquid	
Odour:	alcohol-like	
Odour threshold:	not determined	
Colour:	colourless	
pH value:	neutral, of low solubility	
Melting point:	-89 °C	(ASTM D97)
Freezing point:	No data available.	
Boiling point:	186 °C ( 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) 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 ( 20 °C)	(OECD Guideline 104)
Density:	0.832 g/cm3 ( 20 °C)	(ASTM D4052)
Relative density:	0.832 ( 20 °C)	(ASTM D4052)
Relative vapour density:	4.49 ( 20 °C) Heavier than air.	(calculated)
Partitioning coefficient n-octanol/water (log Pow):	2.9 ( 25 °C)	(OECD Guideline 117)
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	No data available.	
Viscosity, dynamic:	9.845 mPa.s ( 20 °C)	
Viscosity, kinematic:	No applicable information available.	
Solubility in water:	0.9 g/l ( 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.	

### Particle characteristics

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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.
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### 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 sources of ignition.

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.

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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.

#### 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

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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.

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### Container disposal:

Disposal must be made according to official regulations.

## 14. Transport Information

### Land transport

TDG

Not classified as a dangerous good under transport regulations

### 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

Not applicable

### 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	3	Hazardous to the aquatic environment - acute
Skin Irrit.	2	Skin irritation
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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This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

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