

## Material Safety Data Sheet

### 2-Ethylhexanoic Acid

#### Section 1 - Product Identification

Product name: 2-Ethylhexanoic Acid  
Product Number: EAN 904442. P0099605  
Brand: Eastman Chemical Company  
Supplier: Eastman Chemical Company  
200 South Wilcox Drive  
Kingsport, TN 37660-5280  
US

**Emergency telephone number:**

For emergency health, safety, and environmental information, call 1-423-229-4511 or 1-423-229-2000.  
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300 or call 423-229-2000.

#### Section 2 – Composition/Information on Ingredients

Synonyms : 2-Ethylhexanoic Acid  
Formula :  $C_8H_{16}O_2$   
Molecular Weight : 144.214 g/mol

Component	Classification	Concentration
2-Ethylhexanoic Acid		
CAS-No. 149-57-5	-	100 %

#### Section 3 – Hazards Identification

**Hazard classification:**

**Health hazards:**

Toxic to reproduction Category 2

**OSHA Specified Hazards:** not applicable

**Hazard Statement(s):** H361d: Suspected of damaging the unborn child.

**Precautionary statement:**

**Prevention:** P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P281: Use personal protective equipment as required.

**Response:** P308+P313: IF exposed or concerned: Get medical advice/attention.

**Storage:** P405: Store locked up.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** None known.

#### Section 4 – First-Aid Measures

**Description of first aid measures**

**Inhalation:** Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

**Eye contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

**Skin contact:** Wash with soap and water. Get medical attention if symptoms occur.

**Ingestion:** Seek medical advice.

**Most important symptoms and effects, both acute and delayed:** Symptoms may be delayed.

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

**Hazards:** None known.

**Treatment:** Treat symptomatically.

## Section 5 – Fire Fighting Measures

**General fire hazards:** None known.

**Extinguishing media**

**Suitable extinguishing media:** Water spray. Dry chemical. Carbon Dioxide. Foam.

**Unsuitable extinguishing media:** None known.

**Special hazards arising from the substance or mixture:** None known.

**Advice for firefighters**

**Special fire fighting procedures:** None known.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## Section 6 – Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Wear appropriate personal protective equipment.

**Environmental precautions:** Avoid release to the environment.

**Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large Spillages: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

**Notification Procedures:** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

## Section 7 – Handling and Storage

**Precautions for safe handling:** Do not taste or swallow. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Keep container closed. Keep away from food, drink and animal feeding stuffs.

**Specific end use(s):** Chemical Intermediate Additive

## Section 8 – Exposure Controls/Personal Protection

**Control parameters**

**Occupational exposure limits:** Country specific exposure limits have not been established or are not applicable unless listed below.

Chemical Name	Type	Exposure Limit Values	Sources
2-ethylhexanoic acid -	TWA	5 mg/m3	US. ACGIH Threshold Limit

Inhalable fraction and vapor.			Values (01 2010)
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#### Exposure controls

**Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**General information:** Eye bath. Washing facilities.

**Eye/face protection:** It is a good industrial hygiene practice to minimize eye contact.

#### Skin protection

**Hand protection:** It is a good industrial hygiene practice to minimize skin contact.

**Other:** No data available.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Airpurifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Hygiene measures:** Observe good industrial hygiene practices.

**Environmental Controls:** No data available.

## Section 9 – Physical and Chemical Properties

### Information on basic physical and chemical properties

#### Appearance

**Physical State:** Liquid

**Form:** Liquid

**Color:** Colorless

**Odor:** Mild

**Odor Threshold:** No data available.

**pH:** strongly acidic

**Freezing Point:** -118 °C

**Boiling Point:** 223 °C

**Flash Point:** 118.3 °C (Pensky-Martens Closed Cup)

**Evaporation Rate:** Not determined.

**Flammability (solid, gas):** No data available.

**Flammability Limit - Upper (%):** 8.64 %(V)

**Flammability Limit - Lower (%):** 1.04 %(V)

**Vapor pressure:** 0.011 mbar (20 °C)

**Vapor density (air=1):** 5.0

**Specific Gravity:** 0.908 (20 °C)

#### Solubility(ies)

**Solubility in Water:** 0.025 g/l (25 °C)

**Solubility (other):** No data available.

**Partition coefficient (n-octanol/water):** Pow: 436.5 log Pow: 2.64

**Autoignition Temperature:** 371 °C (ASTM D2155)

**Decomposition Temperature:** (HPDTA) No exotherm to boiling

**Dynamic Viscosity:** No data available.

**Kinematic viscosity:** Not determined.

**Explosive properties:** No data available.

**Oxidizing properties:** No data available.

## Section 10 – Stability and Reactivity

**Reactivity:** None known.

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** None at ambient temperatures.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Carbon Dioxide. Carbon Monoxide.

## Section 11 – Toxicological Information

### Information on likely routes of exposure

**Inhalation:** None known.

**Ingestion:** None known.

**Skin contact:** None known.

**Eye contact:** None known.

### Information on toxicological effects

#### Acute Toxicity

**Oral Product:** Oral LD-50: (Rat, Female.): 2,043 mg/kg

**Dermal Product:** Dermal LD-50: (Rat): > 2,000 mg/kg

**Inhalation Product:** LC50 (Rat, 8 h): > 0.11 mg/l

**Repeated dose toxicity Product:** No data available.

#### Specified substance(s)

**2-ethylhexanoic acid:** No data available.

#### Skin corrosion/irritation:

**Product:** (Rabbit, 24 h): Slight

#### Serious eye damage/eye irritation:

**Product:** (Rabbit, 24 h): none

#### Respiratory or skin sensitization:

**Product:** Skin Sensitization: (Guinea Pig) - non-sensitizing

#### Mutagenicity

**In vitro Product:** No data available.

#### Specified substance(s)

**2-ethylhexanoic acid:** No data available.

**In vivo Product:** No data available.

#### Specified substance(s)

**2-ethylhexanoic acid:** No data available.

**Carcinogenicity Product:** No data available.

**Specified substance(s)**

**2-ethylhexanoic acid:** No data available.

**Reproductive toxicity**

**Product:** Suspected of damaging the unborn child.

**Specific target organ toxicity - single exposure**

**Product:** No data available.

**Specified substance(s)**

**2-ethylhexanoic acid:** No data available

**Specific target organ toxicity - repeated exposure**

**Product:** No data available.

**Specified substance(s)**

**2-ethylhexanoic acid:** No data available.

**Aspiration hazard**

**Product:** No data available.

**Specified substance(s)**

**2-ethylhexanoic acid:** No data available.

**Other adverse effects:** No data available.

## Section 12 – Ecological Information

**Toxicity**

**Acute toxicity**

**Fish Product:** LC-50 (*Oryzias latipes*, 96 h): > 100 mg/l

**Aquatic invertebrates Product:** EC-50 (Water Flea, 48 h): 85.4 mg/l EC-50 (Water Flea, 48 h): 106 mg/l

**Chronic Toxicity**

**Fish Product:** No data available.

**Specified substance(s)**

**2-ethylhexanoic acid** No data available.

**Aquatic invertebrates Product:** EC-50 (Water Flea, 21 d): 75 mg/l NOEC (Water Flea, 21 d): 25 mg/l LOEC (Water Flea, 21 d): 63 mg/l

**Toxicity to Aquatic Plants Product:** ErC50 (*Scenedesmus subspicatus*, 72 h): 49.3 mg/l

**Persistence and degradability**

**Biodegradation Product:** 99 % (28 d)

**Biological Oxygen Demand:** Product No data available.

**Specified substance(s)**

**2-ethylhexanoic acid** No data available.

**Chemical Oxygen Demand:** Product No data available.

**Specified substance(s)**

**2-ethylhexanoic acid** No data available

**BOD/COD ratio**

**Product** No data available.

**Specified substance(s)**

**2-ethylhexanoic acid** No data available.

**Bioaccumulative potential Product:** No data available.

**Specified substance(s)**

**2-ethylhexanoic acid** No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**



**2-ethylhexanoic acid** No data available.

**Results of PBT and vPvB assessment:** No data available.

**2-ethylhexanoic acid** No data available.

**Other adverse effects:** No data available.

## Section 13 – Disposal Considerations

### Waste treatment methods

**General information:** No data available.

**Disposal methods:** Dispose of waste and residues in accordance with local authority requirements. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## Section 14 – Transport Information

*Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*

**DOT:** Class not regulated

**IMDG - International Maritime Dangerous Goods Code:** Class not regulated

**IATA:** Class not regulated

## Section 15 – Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS (Canada) Status:** controlled

**WHMIS (Canada) Hazard Classification:** D/2/A

**SARA 311-312 Hazard Classification(s):** delayed (chronic) health hazard

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical List:** NONE

**OSHA:** hazardous

**TSCA (US Toxic Substances Control Act):** This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

**DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):** This product is listed on the DSL. Any impurities present in this product are exempt from listing.

**AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):** This product is listed on AICS or otherwise complies with NICNAS.

**MITI (Japanese Handbook of Existing and New Chemical Substances):** This product is listed in the Handbook or has been approved in Japan by new substance notification.

**ECL (Korean Toxic Substances Control Act):** This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.KE-13740

**Philippines Inventory (PICCS) :** This product is listed on the Philippine Inventory or otherwise complies with PICCS.

**Inventory of Existing Chemical Substances in China:** All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

## Section 16 : Other Information

**HMIS® Hazard Ratings:** Health - 1\*, Flammability - 1, Chemical Reactivity - 0

*HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.*

**Revision Information:** Not relevant.

**Key literature references and sources for data:** No data available.

**Training information:** No data available.

**Issue date:** 10/20/2014

**SDS No.:**

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.