

SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-BX-00164
Product Name	2-Ethylhexanoic acid
CAS No.	149-57-5
Category	Intermediate
Synonyms	2-Ethyl-1-hexanoic acid
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email sales@clearsynth.com for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Skin irritation (Category 2)
 Serious eye damage/eye irritation (Category 2)
 Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H361	Not available
H312	Harmful in contact with skin.

H314	Not available
H319	Causes serious eye irritation.
H360	Not available
H371	Not available
H303	Not available
H318	Causes serious eye damage.
H315	Causes skin irritation.

Precautionary Statement(s)

Code	Statement
P203	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P318	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P260	Not available
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P270	Not available
P301+P330+P331	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P302+P361+P354	Not available
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
P305+P354+P338	Not available
P308+P316	Not available
P316	Not available
P317	Not available
P321	Specific treatment (see ... on this label).
P337+P317	If eye irritation persists: Get medical help.

P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Not available
P301+P317	Not available
P332+P317	If skin irritation occurs: Get medical help.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : 2-Ethylhexanoic acid

CAS Number : 149-57-5

Molecular Formula : C₈H₁₆O₂

Molecular Weight : 144.21

Parent Chemical : Ceftriaxone

Synonyms : 2-Ethyl-1-hexanoic acid

Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

- General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or are severe.
- Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.
- Skin contact: Wash with plenty of soap and water. Get medical attention if irritation develops or persists.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Not available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media: Use extinguishing measures appropriate to surrounding fire (e.g., water spray, alcohol-resistant foam, dry chemical, carbon dioxide).
- Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products: Not available.

- Specific hazards: Not available.

5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers with water spray if exposed to fire.
- Prevent fire-fighting water from entering drains or waterways.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid breathing vapors/mists.
- Avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- Avoid release to the environment. Prevent entry into drains, surface waters, or soil.

6.3 Methods and material for containment and cleaning up

- Contain spill with inert absorbent material (e.g., sand, earth, vermiculite).
- Collect into suitable, labeled containers for disposal.
- Clean contaminated area with water and detergent as appropriate.

6.4 Reference to other sections

- See Section 8 for personal protective equipment and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Use with adequate ventilation.
- Avoid contact with skin, eyes, and clothing.
- Avoid breathing vapors/mists.
- Keep container tightly closed when not in use.
- Practice good industrial hygiene.

7.2 Conditions for safe storage, including any incompatibilities

- Store in a cool, dry, well-ventilated place.
- Keep container tightly closed.
- Incompatible materials: Not available.

7.3 Specific end use(s)

- Intermediate. No further information available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Occupational exposure limits: Not available.
- Biological limit values: Not available.

8.2 Exposure controls

- Engineering controls: Provide adequate general and/or local exhaust ventilation to control airborne levels.

Personal protective equipment (PPE)

- Eye/face protection: Safety glasses with side shields or chemical splash goggles as appropriate.
- Skin protection: Wear protective gloves. Wear protective clothing as needed to prevent skin contact.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection.
- Hygiene measures: Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available

Property	Value
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

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10.1 Reactivity

- No data available.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- No data available.

10.4 Conditions to avoid

- Not available.

10.5 Incompatible materials

- Not available.

10.6 Hazardous decomposition products

- Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: /LABORATORY ANIMALS: Acute Exposure/ ...Rated 2 on rabbit eyes. ...Tested externally on eyes of rabbits and... rated numerically on scale of 1-10 according to degree of injury... after 24 hr /observation/, paying particular attention to condition of cornea. Most severe injuries have been rated 10. /LABORATORY ANIMALS: Acute Exposure/ 2-Ethylhexanoic acid (undiluted or as a 20% solution in 90% acetone/10% corn oil) was applied at levels of 5, 10, or 20 mL/kg to the skin of guinea pigs in an occluded patch test for 24 hr. Slight edema, erythema, and necrosis were observed with neat material. No edema or very slight edema, with slight to moderate redness, was observed after treatment with the 20% solution. Slight necrosis with subsequent eschar formation (slight to moderate) was observed in five of six New Zealand white rabbits 4 hr after application of undiluted 2-ethylhexanoic acid.

- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: No data available.
- Reproductive toxicity: No data available.

- STOT-single exposure: No data available.
- STOT-repeated exposure: /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ Male Fischer 344 rats fed 2% 2-ethylhexanoic acid in the diet for 3 weeks gained 15% less body weight compared to controls and showed hepatomegaly. No increases in mortality were reported. The liver-to-body weight ratio increased by 55%, and there was a substantial increase in hepatic peroxisomes. Cholesterol levels in treated animals were 17% below the level in control animals, and triglycerides were 68% less than in controls. /LABORATORY ANIMALS: Subchronic or Prechronic Exposure/ Male and female Fischer 344 rats were treated with 0, 200, 800, or 1600 mg/kg by gavage 5 days/week for 2 weeks. Weakness and lethargy, hypothermia, sialorrhea, tremors, poor body condition, and substantial losses to mortality were observed in both sexes of the high-dose group. Mid-dose animals showed generally less severe signs than in the high-dose animals, and no mortality. Body weights in surviving high-dose animals and mid-dose male rats were lower than in the control group. Feed consumption in surviving high-dose animals was decreased. Liver weights (absolute and relative to body weight) were significantly increased in a dose-related manner in the high- and mid-dose rats. Hepatocyte hypertrophy was observed in high-dose animals that survived to termination. The no observable effect level (NOEL) was 200 mg/kg for males and <200 mg/kg for females.
- Aspiration hazard: No data available.

Likely routes of exposure

- /SIGNS AND SYMPTOMS/ Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissues of mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may be fatal as a result of spasm, inflammation, and edema of the larynx, and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Symptoms related to the physical, chemical and toxicological characteristics

- /SIGNS AND SYMPTOMS/ Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissues of mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may be fatal as a result of spasm, inflammation, and edema of the larynx, and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

SECTION 12: Ecological information

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12.1 Toxicity

- No data available.

12.2 Persistence and degradability

- No data available.

12.3 Bioaccumulative potential

- No data available.

12.4 Mobility in soil

- No data available.

12.5 Results of PBT and vPvB assessment

- Not available.

12.6 Endocrine disrupting properties

- No data available.

12.7 Other adverse effects

- No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains or the environment.
- Contaminated packaging: Dispose of as unused product unless cleaned thoroughly.

Waste code

- Not available.

SECTION 14: Transport information

SECTION 14: Transport information

- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Not available.
- Transport in bulk according to IMO instruments: Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

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

- Not available.

15.2 Chemical safety assessment

- No data available.

SECTION 16: Other information

SECTION 16: Other information

- Product name: 2-Ethylhexanoic acid
- CAS No.: 149-57-5
- Synonyms: 2-Ethyl-1-hexanoic acid
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Disclaimer

- The information provided is based on data believed to be reliable; however, no warranty is expressed or implied regarding its accuracy or completeness. Users must determine suitability for their particular purpose and comply with all applicable laws and regulations.

Revision date

- Not available.

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