

 **MATERIAL SAFETY DATA SHEET**

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**PRODUCT: 2-ETHYLHEXANOIC ACID**

**PRODUCT NAME:** 2-ETHYLHEXANOIC ACID

**OTHER NAMES:** 2EHA

**STATEMENT OF HAZARDOUS NATURE:**

Classified as hazardous according to the criteria of Worksafe Australia.

**SHIPPING NAME** : Combustible Liquid, n.o.s.  
**HAZARD CLASS & DIV** : C2 - COMBUSTIBLE LIQUID  
**PACKING GROUP** : PG III  
**UN NUMBER** : 3265  
**HAZCHEM CODE** : 2R  
**POISONS SCHEDULE** : Not scheduled  
**USES** : Chemical intermediate for additives

**PHYSICAL DESCRIPTION/PROPERTIES:**

**APPEARANCE** : Clear liquid, unpleasant odour.  
**BOILING POINT** : 223°C  
**MELTING POINT** : -18°C  
**FLASH POINT** : 1118°C  
**FLAMMABLE LIMITS** : LEL: 0.9%, UEL: 6.7%.  
**EXPLOSIVE PROPERTIES** : Not Available  
**VAPOR PRESSURE** : 0.008 mmHg at 20°C  
**VAPOR DENSITY** : 5.0  
**DENSITY** : 905-908 kg/m<sup>3</sup> (20°C)  
**SOLUBILITY IN WATER** : 1.4 g/l (20°C)  
**SPECIFIC GRAVITY** : 0.908 at 20°C

**INGREDIENTS:**

CHEMICAL ENTITY	CAS No.	PROPORTION
2-Ethylhexanoic acid	149-57-5	100%

**1. HEALTH HAZARD INFORMATION****Health Effects****Acute:**

**INGESTION:** Ingestion may result in liver or kidney damage.

**SKIN CONTACT:** On prolonged repeated contact, this material may defat the skin resulting in possible irritation and dermatitis.

**INHALED:** Respiratory irritation, dizziness, nausea, loss of consciousness.

Vapours may cause coughing, chest pain, and irritation to nose and throat. Nausea and vomiting can result.

**EYE CONTACT:** Expected to cause severe eye irritation or serious damage to the eye.

**Chronic:**

Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

**MATERIAL SAFETY DATA SHEET****PRODUCT: 2-ETHYLHEXANOIC ACID****2. FIRST AID**

**EYE CONTACT:** Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes.

**SKIN CONTACT:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

**INHALATION:** Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth-to-mouth resuscitation.

**INGESTION:** Do not induce vomiting. Give 1 to 2 glasses of water. Get medical assistance and call a physician immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

**3. PRECAUTIONS FOR USE****Exposure standards**

Not established

**Personal protection**

**VENTILATION:** Use in well ventilated area. Ventilation desirable and equipment should be explosion proof.

**RESPIRATORY PROTECTION:** Approved respiratory protective equipment should be used if ventilation is inadequate and breathing of mists or vapours is likely.

**EYE PROTECTION:** Chemical type goggles must be worn.

**SKIN PROTECTION:** If skin contact is likely impervious gloves (butyl rubber, Viton) and appropriate personal protective equipment should be worn. Good personal hygiene practices should always be followed.

**EXPOSURE LIMITS:** This product does not contain any components which have recognized exposure limits.

**Flammability**

Material is combustible. Flash Point: 118°C.

**4. SAFE HANDLING INFORMATION****Storage & Transport**

Store in closed containers in a dry and cool place. Avoid prolonged repeated skin contact. Avoid contact with eyes. Handling of bulk quantities must be carried out in a bunded area.

**Stability & Reactivity**

**STABILITY (THERMAL, LIGHT, ETC.):** Stable.

**CONDITIONS TO AVOID:** Heat, sparks, flame and build up of static electricity.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizers. Alkalies and aluminium. Organic Acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**5. SPILLS & DISPOSAL****Clean Up of Spills**

**Spills:** All spillages should be cleared up quickly. Do not allow the material to enter surface water drains. If this should occur inform the local authorities immediately. Absorb onto sawdust and collect the material in a closed container or salvage tank and remove to a safe place for disposal by burning (note that the material is combustible). Flush contaminated area with plenty of water. Contact local authorities for local regulations on disposal.

**Disposal Methods**

Disposal should be carried out in accordance with national and local regulations eg. in an approved incinerator. Consult local authorities for detailed advice. If correctly incinerated this material will decompose to carbon dioxide and water.

**MATERIAL SAFETY DATA SHEET****PRODUCT: 2-ETHYLHEXANOIC ACID****Fire/Explosion Hazards**

Material is combustible. Flash Point: 118°C.

Hazardous decomposition products: Carbon monoxide.

**Fire Fighting Recommendations**

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, water spray or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. Prevent contaminated extinguishing water entering drains, sewers or streams.

SPECIAL PROTECTIVE EQUIPMENT: Wear self-contained breathing apparatus and protective suit.

**6. OTHER INFORMATION****Acute Toxicology**

ORAL TOXICITY (RATS): Harmful (LD50: greater than 200 but 2000 mg/kg or less). Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Harmful (LD50: greater than 400 but 2000 mg/kg or less). Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not established

EYE IRRITATION (RABBITS): Severe irritant. (Draize score: greater than 55 but 110 or less). Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). Based on testing of similar products and/or the components.

**Reproductive Toxicology**

This product contains 2-ethylhexanol. Studies with animals by the oral route have shown that developmental effects occurred at greater than 130 mg/kg. The dermal route observed no developmental effects. The risk of adverse developmental effects in humans is unlikely.

**Chronic Toxicology**

Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

Environmental fate and effects: Not established.

**CONTACT POINT:****EMERGENCY No. 0419 341 095 all hours**

**DISCLAIMER:** The information given in this data sheet is based on data supplied by the manufacturer and is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. The information and recommendations offered are for the user's consideration and it is the user's responsibility to satisfy themselves that they are suitable and complete for this particular purpose. We recommend that the safety and handling information presented in this data sheet be passed on, in an appropriate format, to your customers and handlers.