

 **MATERIAL SAFETY DATA SHEET****NUVO AUSTRALIA PTY LTD**

(ACN 089 731 617)

324/ 23 MILTON PARADE**MALVERN VIC 3144 AUSTRALIA****PHONE: (03) 9822 2209****FAX: (03) 9822 2109****EMERGENCY No. 0419 341 095 any time****http://www.nuvo.com.au****PRODUCT: 2-ETHYLHEXANOL****PRODUCT NAME: 2-ETHYLHEXANOL****OTHER NAMES: Ethyl hexyl alcohol, 2-Ethyl 1 Hexanol****STATEMENT OF HAZARDOUS NATURE:**

Classified as hazardous according to the criteria of Worksafe Australia.

PHYSICAL DESCRIPTION/PROPERTIES:

APPEARANCE: Clear liquid
COLOR: Transparent Colourless
ODOR: Mild
BOILING POINT C(F): 184(364)
MELTING POINT C(F): -57(-70)
FLASH POINT C(F): 72(162) (ASTM D-56)
FLAMMABLE LIMITS LEL: 0.8%, UEL: 9.7%.
EXPLOSIVE PROPERTIES: Not Available
OXIDIZING PROPERTIES: Not Available
VAPOR PRESSURE-mmHg: < 0.1 at 20 C
VAPOR DENSITY: 4.5
EVAPORATION RATE: Not Available
RELATIVE DENSITY, 15/4 C: 0.833
SOLUBILITY IN WATER: Slight

SHIPPING NAME: Combustible Liquid, n.o.s.
HAZARD CLASS & DIV: C2 - COMBUSTIBLE LIQUID
PACKING GROUP: PG III
UN NUMBER: Not Applicable
HAZCHEM CODE: Not Applicable
POISONS SCHEDULE: Not scheduled
USES: Industrial solvent, chemical intermediate

INGREDIENTS:

CHEMICAL ENTITY	CAS No.	PROPORTION
2-Ethylhexanol	104-76-7	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-ETHYLHEXANOL****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.

NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.

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 C(F): 72(162) (ASTM D-56).

Flammable limits - LEL: 0.8%, UEL: 9.7%.

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

HANDLING: Avoid prolonged repeated skin contact. Avoid contact with eyes. Handling of bulk quantities must be carried out in a bunded area.

STORAGE: Store in closed containers in a dry and cool place.

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.

MATERIAL SAFETY DATA SHEET**PRODUCT: 2-ETHYLHEXANOL****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.

Fire/Explosion Hazards:

Material is combustible. Flash Point C(F): 72(162) (ASTM D-56).

Flammable limits - LEL: 0.8%, UEL: 9.7%.

Hazardous decomposition products: Carbon monoxide.

Fire Fighting Recommendations:

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

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 runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: Product health hazards may require personal protective equipment in addition to that normally worn. For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

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.