

1. IDENTIFICATION

Product Name	2-Ethylhexanol
Other Names	2-Ethyl-1-hexanol; 2-Ethylhexyl alcohol
Uses	Plasticiser for PVC resins; in lubricants and additives; as a solvent; in colouring agents; as a softener; as a viscosity adjuster.
Chemical Family	No Data Available
Chemical Formula	C8H18O
Chemical Name	1-Hexanol, 2-ethyl-
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

Not Scheduled

Redox Ltd Corporate Office Sydney Locked Bag 15 Minto NSW 2566 Australia 2 Swettenham Road Minto NSW 2566 Australia All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

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Globally Harmonised System

Hazard Classification		Hazardous according to Chemicals (GHS)	o the criteria of the Globally Harmonised System of Classification and Labelling of	
Hazard Categories		Flammable Liquids - Category 4		
		Acute Toxicity (Oral) - C	ategory 5	
		Acute Toxicity (Inhalation	on) - Category 4	
		Skin Corrosion/Irritatior	n - Category 2	
		Serious Eye Damage/Irr	ritation - Category 2A	
		Specific Target Organ T	oxicity (Single Exposure) - Category 3	
		Acute Hazard To The Ad	quatic Environment - Category 3	
Pictograms				
Signal Word		Warning		
Hazard Statements		H227	Combustible liquid.	
		H303	May be harmful if swallowed.	
		H315	Causes skin irritation.	
		H319	Causes serious eye irritation.	
		H332	Harmful if inhaled.	
		H335	May cause respiratory irritation.	
		H402	Harmful to aquatic life.	
Precautionary Statements	Prevention	P210	Keep away from flames and hot surfaces. No smoking.	
		P280	Wear protective gloves/eye protection/face protection.	
		P261	Avoid breathing mist/vapours/spray.	
		P233	Keep container tightly closed.	
		P273	Avoid release to the environment.	
		P271	Use only outdoors or in a well-ventilated area.	
		P271	Use only outdoors or in a well-ventilated area.	
	Response	P370 + P378	In case of fire: Use carbon dioxide (CO2), dry chemical, foam or water mist for extinction.	
		P312	Call a POISON CENTER or doctor if you feel unwell.	
		P302 + P352	IF ON SKIN: Wash with plenty of water/	
		P337 + P313	If eye irritation persists: Get medical advice/attention.	
		P304 + P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.	
		P332 + P313	If skin irritation occurs: Get medical advice/attention.	
		P362	Take off contaminated clothing.	
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	Storage	P403 + P235	Store in a well-ventilated place. Keep cool.	
		P405	Store locked up.	
	Disposal	P501	Dispose of contents/container in accordance with local / regional / national / international regulations.	

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications	Physical Hazards	3.1D	Flammable liquid - low hazard
	Health Hazards	6.1D	Substances that are acutely toxic - Harmful
		6.3A	Substances that are irritating to the skin
		6.4A	Substances that are irritating to the eye
	Environmental Hazards	9.1D	Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
		9.3C	Substances that are harmful to terrestrial vertebrates

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
2-Ethylhexanol	C8H18O	104-76-7	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure		
Swallowed	IF SWALLOWED: Rinse mouth, then drink a glass of water. Do not induce vomiting. Call a Poison Centre or doctor/physician for advice. Never give anything by mouth to an unconscious person.	
Eye	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.	
Skin	IF ON SKIN: Remove contaminated clothing and shoes immediately. Wash skin with plenty of soap and running water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.	
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor/physician for advice. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.	
Advice to Doctor	Treat symptomatically. No known specific antidote.	
Medical Conditions Aggravated by Exposure	No information available.	

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
Flammability Conditions	Combustible liquid; May burn but does not ignite readily.

Extinguishing Media	Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets.
Fire and Explosion Hazard	When heated, vapours may form explosive mixtures with air. Containers may explode when heated.
Hazardous Products of Combustion	Fire may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
Personal Protective Equipment	Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.
Flash Point	75 °C [Closed cup]
Lower Explosion Limit	1.1 %
Upper Explosion Limit	12.7 %
Auto Ignition Temperature	280 °C
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. ELIMINATE all ignition sources. Avoid accidents, clean up immediately. Do not touch or walk through spilled material - Slippery when spilt. Avoid breathing vapours and contact with eyes, skin and clothing.
Clean Up Procedures	Absorb with earth, sand or other non-combustible material and transfer to suitable containers for disposal (see SECTION 13). For large spills, pump off product.
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas.
Decontamination	No information available.
Environmental Precautionary Measures	Prevent entry into drains and waterways. If contamination of sewers or waterways has occurred advise local emergency services.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation - Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/eye protection/face protection (see SECTION 8). Combustible liquid: Keep away from flames and hot surfaces - No smoking. Take precautionary measures against static discharge. Avoid release to the environment.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed when not in use - check regularly for leaks. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store locked up.
Container	Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for 2-Ethyl hexanol. - Recommended standard: 8 hr TWA = 200 ppm [Supplier's SDS].
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

Personal Protection Equipment	 Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Organic vapour respirator (refer to AS/NZS 1715 & 1716). Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Chemical goggles. Hand protection: Handle with gloves. Recommended: Impervious gloves. Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, safety shoes. 	
Special Hazards Precaustions	No information available.	
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Liquid
Odour	Alcoholic *Odour threshold: 0.07 ppm
Colour	Colourless
рН	7 (1 g/L)
Vapour Pressure	0.4 hPa (@ 20 °C)
Relative Vapour Density	4.5 Air = 1
Boiling Point	186 °C
Melting Point	No Data Available
Freezing Point	-89 °C
Solubility	0.9 g/L in water 20°C
Specific Gravity	0.832
Flash Point	75 °C [Closed cup]
Auto Ignition Temp	280 °C
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	log Pow = 2.9
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	9.845 mPa.s (@ 20 °C)
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Not applicable.

Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	Combustible liquid; May burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.
Release of Invisible Flammable Vapours and Gases	When heated, vapours may form explosive mixtures with air.

10. STABILITY AND REACTIVITY

General Information	No hazardous reactions when stored and handled correctly.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Keep away from heat and sources of ignition.
Materials to Avoid	Incompatible/reactive with strong oxidising agents, strong acids.
Hazardous Decomposition Products	Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.
Hazardous Polymerisation	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	 Acute toxicity: May be harmful if swallowed; large amounts may cause nausea and vomiting. Harmful if inhaled. Skin corrosion/irritation: Cause skin irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Eye damage/irritation: Causes serious eye irritation. Respiratory/skin sensitisation: Not expected to be a skin sensitiser. Germ cell mutagenicity: The chemical was not mutagenic in mammalian cell culture. The chemical was not mutagenic in a test with mammals. Carcinogenicity: Not listed as carcinogenic according to the International Agency for Research on Cancer (IARC). Reproductive toxicity: No information available. STOT (single exposure): May cause respiratory irritation (vapour). STOT (repeated exposure): In animals, effects have been reported on the liver. Aspiration toxicity: No information available.
Acute	
Ingestion	Acute toxicity (Oral): - LD50, Rat: 2,047 mg/kg [Supplier's SDS].
Other	Acute toxicity (Dermal): - LD50, Rabbit: >2,000 mg/kg [Supplier's SDS].
Inhalation	Acute toxicity (Inhalation): - LC50, Rat: >0.89 - <=5.3 mg/L (4 h) aerosol [Supplier's SDS].
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Aquatic toxicity: - LC50, Fish (Golden orfe): 17.1 mg/L (96 h) [Supplier's SDS]. - EC50, Crustacea (Daphnia magna): 39 mg/L (48 h) [Supplier's SDS].
Persistence/Degradability	The material is readily biodegradable.
Mobility	No information available.
Environmental Fate	Harmful to aquatic life - Avoid release to the environment.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General InformationDispose of contents/container in accordance with local/regional/national regulations.Special Precautions for Land FillNo information available.

14. TRANSPORT INFORMATION

Land Transport (Australia) ADG Code

ADG	Coue

Proper Shipping Name	2-Ethylhexanol
Class	C1 Combustible Liquids - Flash Point >60°C - <=93°C, Closed Cup
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.
Land Transport (Malaysia)	
ADR Code	
Proper Shipping Name	2-Ethylhexanol
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.
Land Transport (New Zealand) NZS5433	
Proper Shipping Name	2-Ethylhexanol

No Data Available
No Data Available
NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America) US DOT

Proper Shipping Name	2-Ethylhexanol
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code	
Proper Shipping Name	2-Ethylhexanol
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available

UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR	
Proper Shipping Name	2-Ethylhexanol
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information	OCTYL ALCOHOLS are listed in the SUSMP in Appendix B - Substances considered not to require control by scheduling (Low toxicity; Any use).	
Poisons Schedule (Aust)	Not Scheduled	
Environmental Protection Authority (New Zealand) Hazardous Substances and New Organisms Amendment Act 2015		
Approval Code	HSR001386	
National/Regional Inventories		
Australia (AIIC)	Listed	
Canada (DSL)	Not Determined	
Canada (NDSL)	Not Determined	
China (IECSC)	Not Determined	
Europe (EINECS)	Not Determined	
Europe (REACh)	Not Determined	
Japan (ENCS/METI)	Not Determined	
Korea (KECI)	Not Determined	
Malaysia (EHS Register)	Not Determined	
New Zealand (NZIoC)	Listed	
Philippines (PICCS)	Not Determined	
Switzerland (Giftliste 1)	Not Determined	
Switzerland (Inventory of Notifie Substances)	d Not Determined	
Taiwan (NCSR)	Not Determined	
USA (TSCA)	Not Determined	

16. OTHER INFORMATION

Related Product Codes

ETHEXA1000, ETHEXA1001, ETHEXA1002, ETHEXA1003, ETHEXA1004, ETHEXA1005, ETHEXA1006, ETHEXA1007, ETHEXA1008, ETHEXA1009, ETHEXA1010, ETHEXA1011, ETHEXA1012, ETHEXA1013, ETHEXA1014, ETHEXA1015, ETHEXA1016, ETHEXA1017, ETHEXA1018, ETHEXA1019, ETHEXA1020, ETHEXA1021, ETHEXA1022, ETHEXA1023, ETHEXA1025, ETHEXA1026, ETHEXA1027, ETHEXA1000, ETHEXA1000, ETHEXA1200, ETHEXA1300, ETHEXA1301,

ETHEXA1302, ETHEXA1303, ETHEXA1500, ETHEXA1600, ETHEXA2000, ETHEXA2500, ETHEXA3000, ETHEXA4000, ETHEXA4500, ETHEXA4600, ETHEXA5000, ETHEXA5001, ETHEXA5100, ETHEXA6000, ETHEXA6001, ETHEXA6100, ETHEXA6500, ETHEXA7000, ETHEXA7001, ETHEXA7002, ETHEXA7100, ETHEXA7101, ETHEXA7102, ETHEXA7500, ETHEXA5000, ETHEXA

ug/24H Micrograms per 24 Hours UN United Nations wt Weight