

1. IDENTIFICATION

Product Name	ALKONAT L 30
Other Names	Alcohols, C12-14, ethoxylated; Ethoxylated lauryl alcohol 3 EO
Uses	Industrial uses.
Chemical Family	No Data Available
Chemical Formula	No Data Available
Chemical Name	Lauryl Alcohol 3 EO
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty 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

Globally Harmonised System

Hazard Classification

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories

Acute Toxicity (Oral) - Category 4
 Skin Corrosion/Irritation - Category 2
 Serious Eye Damage/Irritation - Category 1
 Acute Hazard To The Aquatic Environment - Category 1
 Long-term Hazard To The Aquatic Environment - Category 3

Pictograms**Signal Word**

Danger

Hazard Statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention	<p>P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.</p>
Response	<p>P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P321 Specific treatment (see First Aid Measures on Safety Data Sheet). P330 Rinse mouth. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P391 Collect spillage.</p>
Disposal	<p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations.</p>

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Lauryl Alcohol 3 EO	No Data Available	68439-50-9	100 %
1,4-Dioxane	No Data Available	123-91-1	10 ppm %
2-[2-[2- (dodecyloxy)ethoxy]ethoxy]ethanol	No Data Available	3055-94-5	- %
Dodecan-1-ol, ethoxylated	No Data Available	9002-92-0	- %
Ethylene oxide	No Data Available	75-21-8	1 ppm %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Seek prompt medical attention. Do not induce vomiting. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.
Eye	In case of eye contact, symptoms of eye injury may be delayed. Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if easy to do. Seek prompt medical attention.
Skin	Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower. Seek prompt medical attention.
Inhaled	Seek prompt medical attention. Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Advice to Doctor	Direct the treatment in accordance with the symptoms and clinical conditions of the patient. No specific antidote.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	Cool the intact fire-exposed containers with water spray and remove them.
Flammability Conditions	No Data Available
Extinguishing Media	In case of fire, use water spray, alcohol resistant foam, Carbon dioxide (CO ₂), or dry chemical powder.
Fire and Explosion Hazard	Product is not flammable.
Hazardous Products of Combustion	In case of combustion, it may generate Carbon monoxide and CO ₂ .
Special Fire Fighting Instructions	Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire.
Personal Protective Equipment	Self-contained breathing apparatus and protective clothing are required.
Flash Point	160 °C Open Cup
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Keep heat and/or ignition sources away.
Clean Up Procedures	Collect remnants with an appropriate absorbent material. Transfer to proper container.
Containment	Stop if possible. Contain and dike spilled product with earth or sand.
Decontamination	Wash the contaminated surface with water, which should be collected for disposal.
Environmental Precautionary Measures	Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.
Evacuation Criteria	Isolate and signalize area.
Personal Precautionary Measures	Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.

7. HANDLING AND STORAGE

Handling	Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If accidental contact occurs, exposed area should be washed immediately. Emergency eyewashes and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse. Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the
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Storage	storage location has appropriate moisture, pressure and temperature. Keep containers tightly closed when not in use. Avoid contact with strong oxidizing agents and strong bases.
Container	Keep in original container as approved by the manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	Safe work Australia (SWA) Exposure Standard for 1,4-Dioxane (CAS No. 123-91-1): TWA = 10 ppm or 36 mg/m ³ - Danger of cutaneous absorption; confirmed animal carcinogen with unknown relevance to humans. Safe Work Australia (SWA) Exposure Standard for Ethylene oxide (CAS No. 75-21-8): TWA = 1 ppm or 1.8 mg/m ³ - Suspected human carcinogen.
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhauster).
Personal Protection Equipment	EYE PROTECTION: Side shields or wide vision safety goggles. SKIN PROTECTION: PVC apron and safety boots/shoes. HAND PROTECTION: Gloves made of rubber or PVC (Polyvinyl chloride). BREATHING EQUIPMENT: In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus. It is recommended to wear a face mask with organic vapours cartridge in case of exposure to vapours/aerosols.
Special Hazards Precautions	HARMFUL IF INHALED: Avoid breathing fumes/gas/mist/vapours/spray; use only outdoors or in a well-ventilated area. CAUSES SKIN IRRITATION & SERIOUS EYE DAMAGE: Wash skin thoroughly after handling; wear protective gloves/eye protection/face protection.
Work Hygienic Practices	Avoid inhalation and contact with eyes, skin or clothing through proper protection. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Viscous
Odour	No information available.
Colour	Colourless
pH	6 - 8 1% solution
Vapour Pressure	No Data Available
Relative Vapour Density	11 Air = 1
Boiling Point	No Data Available
Melting Point	6 °C
Freezing Point	6 °C
Solubility	Insoluble in water - Soluble in alcohol & acetone 20°C
Specific Gravity	950 kg/m ³
Flash Point	160 °C Open Cup
Auto Ignition Temp	No Data Available
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	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	32 mPa.s (@ 25 °C)
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	Not applicable - product is a liquid.
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	No information available.
Reactions That Release Gases or Vapours	No information available.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use and storage.
Conditions to Avoid	Avoid high temperatures, ignition sources and prolonged exposure to the air.
Materials to Avoid	Avoid contact with strong oxidizing agents and strong bases.
Hazardous Decomposition Products	In case of combustion, it may generate Carbon monoxide and CO ₂ .
Hazardous Polymerisation	Will not polymerise.

11. TOXICOLOGICAL INFORMATION

General Information	Most important symptoms/effects, acute and delayed: Ingestion - May cause gastrointestinal irritation. Inhalation - Repeated and/or prolonged exposure, without adequate protection, to vapours or mists of the product may cause irritation of the nose, throat and respiratory tract. Skin - Mild irritant. Eyes - Causes moderate to severe irritation.
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Acute

Ingestion	ACUTE TOXICITY - ORAL LD50, rat: 1 g/kg.
Inhalation	ACUTE TOXICITY - INHALATION LC50, 4h, rat: > 1.6 mg/L.
Other	ACUTE TOXICITY - DERMAL LD50, rat: > 2000 mg/kg.
SkinIrritant	SKIN CORROSION/IRRITATION 500 mg, 24h, rabbit: Slightly irritating.
Eyelrritant	SERIOUS EYE DAMAGE/IRRITATION 750 µg, 24h, rabbit: Severely irritating.

Sensitisation	SKIN SENSITISATION Not a skin sensitizer to guinea pigs.
Mutagenicity	GERM CELL MUTAGENICITY Negative in Ames test with and without metabolic activation.
Reproduction	REPRODUCTIVE TOXICITY NOAEL, dermal, rat P, F1, F2 generations: > 250 mg/kg/day
Other	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE NOAEL, oral, 28d, rat: 1000 mg/kg/day (systemic effects). NOAEL, dermal, 13 weeks, rat: 500 mg/kg/day (body weight).
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish - LC50, 96h, Cyprinus carpio: 1.4 mg/L (static). Invertebrate - LC50, 48h, Daphnia magna: 6.46 mg/L. Algae - EC50, 72h, Selenastrum capricornutum: 0.41 mg/L. NOEC: 0.31 mg/L (growth rate).
Persistence/Degradability	74% by BOD after 28 days. Readily biodegradable.
Mobility	Koc = 150 (estimated). It is expected to have high mobility in soil.
Environmental Fate	Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. AVOID RELEASE TO THE ENVIRONMENT.
Bioaccumulation Potential	Log Kow 3.40 (estimated). Bioconcentration potential in aquatic organisms is moderate.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies. The preferred options for disposal include reuse, recycling, co-processing, finding a use for a byproduct, incineration or other thermal destruction process at licensed facilities. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions.
Special Precautions for Land Fill	Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal of packaging include reuse, recycling or reclamation at licensed facilities.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	Alcohol, C12-C16, poly(1-6)ethoxylate
Class	C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	AU01

Land Transport (Malaysia)

ADR

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohol, C12-C16, poly(1-6)ethoxylate)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohol, C12-C16, poly(1-6)ethoxylate)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohol, C12-C16, poly(1-6)ethoxylate)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
ERG	171 Substances (Low to Moderate Hazard)
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

Sea Transport

IMDG Code

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohol, C12-C16, poly(1-6)ethoxylate)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available
EMS	F-A, S-F
Marine Pollutant	No

Air Transport

IATA DGR

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohol, C12-C16, poly(1-6)ethoxylate)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	Not Scheduled

National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Listed
China (IECSC)	Listed
Europe (EINECS)	Not Listed
Europe (REACH)	Not Listed
Japan (ENCS/METI)	Listed
Korea (KECI)	Listed
Malaysia (EHS Register)	Not Listed
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Listed
USA (TSCA)	Listed

16. OTHER INFORMATION

Related Product Codes	SUFFAR5000
Revision	1

Revision Date

17 Mar 2017

Key/Legend

< Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances**atm** Atmosphere**CAS** Chemical Abstracts Service (Registry Number)**cm²** Square Centimetres**CO₂** Carbon Dioxide**COD** Chemical Oxygen Demand**deg C (°C)** Degrees Celcius**EPA (New Zealand)** Environmental Protection Authority of New Zealand**deg F (°F)** Degrees Farenheit**g** Grams**g/cm³** Grams per Cubic Centimetre**g/l** Grams per Litre**HSNO** Hazardous Substance and New Organism**IDLH** Immediately Dangerous to Life and Health**immiscible** Liquids are insoluable in each other.**inHg** Inch of Mercury**inH₂O** Inch of Water**K** Kelvin**kg** Kilogram**kg/m³** Kilograms per Cubic Metre**lb** Pound**LC₅₀** LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.**LD₅₀** LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.**ltr** or **L** Litre**m³** Cubic Metre**mbar** Millibar**mg** Milligram**mg/24H** Milligrams per 24 Hours**mg/kg** Milligrams per Kilogram**mg/m³** Milligrams per Cubic Metre**Misc** or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.**mm** Millimetre**mmH₂O** Millimetres of Water**mPa.s** Millipascals per Second**N/A** Not Applicable**NIOSH** National Institute for Occupational Safety and Health**NOHSC** National Occupational Heath and Safety Commission**OECD** Organisation for Economic Co-operation and Development**Oz** Ounce**PEL** Permissible Exposure Limit**Pa** Pascal**ppb** Parts per Billion**ppm** Parts per Million**ppm/2h** Parts per Million per 2 Hours**ppm/6h** Parts per Million per 6 Hours**psi** Pounds per Square Inch**R** Rankine**RCP** Reciprocal Calculation Procedure**STEL** Short Term Exposure Limit**TLV** Threshold Limit Value**tne** Tonne**TWA** Time Weighted Average**ug/24H** Micrograms per 24 Hours**UN** United Nations**wt** Weight