

### 1. IDENTIFICATION

<b>Product Name</b>	<b>Decyl glucoside, 50% aqueous solution</b>
<b>Other Names</b>	Decyl glucoside 50%; Green APG 0810 50%
<b>Uses</b>	Raw material for the chemical and pharmaceutical industry. For industrial and professional use.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	No Data Available
<b>Chemical Name</b>	D-Glucopyranose, oligomeric, decyl octyl glycosides, 50% aqueous solution
<b>Product Description</b>	Alkyl polyglycosides (APGs) (C8-10).

### 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

<b>Hazard Classification</b>	Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)		
<b>Hazard Categories</b>	Serious Eye Damage/Irritation - Category 1		
<b>Pictograms</b>			
<b>Signal Word</b>	Danger		
<b>Hazard Statements</b>	<b>H318</b>	Causes serious eye damage.	
<b>Precautionary Statements</b>	Prevention	<b>P280</b>	Wear eye protection/face protection.
	Response	<b>P305 + P351 + P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		<b>P310</b>	Immediately call a POISON CENTER or doctor/physician.

### 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

<b>HSNO Classifications</b>	Health Hazards	<b>6.4A</b>	Substances that are irritating to the eye
	Environmental Hazards	<b>9.1D</b>	Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
D-Glucopyranose, oligomeric, decyl octyl glycosides	No Data Available	68515-73-1	50 %

## 4. FIRST AID MEASURES

### Description of necessary measures according to routes of exposure

<b>Swallowed</b>	If swallowed: Rinse mouth and drink plenty of water. Call a Poison Centre or doctor/physician if you feel unwell.
<b>Eye</b>	Eye contact: Immediately flush eyes with running water for at least 15 minutes, holding eyelids apart. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a Poison Centre or doctor/physician; consult an ophthalmologist.
<b>Skin</b>	Skin contact: Wash with plenty of soap and water. Take off contaminated clothing and shoes, and wash before reuse. If skin irritation occurs, get medical advice/attention.
<b>Inhaled</b>	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor/physician if experiencing respiratory symptoms, or if you feel unwell.
<b>Advice to Doctor</b>	Treat symptomatically. No information available.

## Medical Conditions Aggravated by Exposure

### 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	If safe to do so, remove containers from the path of fire.
<b>Flammability Conditions</b>	May burn, but does not ignite readily.
<b>Extinguishing Media</b>	Suitable: Water fog, foam, extinguishing powder, Carbon dioxide.
<b>Fire and Explosion Hazard</b>	If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.
<b>Hazardous Products of Combustion</b>	In case of fire: Carbon monoxide and Carbon dioxide may be liberated.
<b>Special Fire Fighting Instructions</b>	Collect contaminated fire extinguishing water separately. Do not allow to enter drains or surface water.
<b>Personal Protective Equipment</b>	Wear self-contained breathing apparatus (SCBA) and suitable protective clothing.
<b>Flash Point</b>	>100 °C
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Hazchem Code</b>	No Data Available

### 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Ventilate enclosed spaces before entering. ELIMINATE all ignition sources. Do not touch or walk through spilled material. SLIPPING HAZARD. Avoid contact with eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>Clean Up Procedures</b>	Absorb with earth, sand or other non-combustible material and transfer to container for disposal.
<b>Containment</b>	Stop leak if safe to do so. Prevent entry into waterways, drains or confined areas.
<b>Decontamination</b>	No information available.
<b>Environmental Precautionary Measures</b>	Do not allow to enter into ground-water, surface water or drains.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
<b>Personal Precautionary Measures</b>	Wear personal protective equipment (see Section 8).

### 7. HANDLING AND STORAGE

<b>Handling</b>	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Provide adequate ventilation, and local exhaust as needed. Avoid contact with eyes. Wear suitable protective clothing/eye protection/face protection.
<b>Storage</b>	Keep in a cool, dry and well-ventilated place. Keep container tightly closed.
<b>Container</b>	Keep in the original container.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	Contains no substances with occupational exposure limit values. DNELs:
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COMPONENT: Alkyl polyglycoside (C8-10) (CAS No. 68515-73-1):  
- Workers: Long-term, systemic (Dermal) DNEL = 595,000 mg/kg bw/d  
- Workers: Long-term, systemic (Inhalative) DNEL = 420 mg/m<sup>3</sup>  
- Consumers: Long-term, systemic (Oral) DNEL = 35.7 mg/kg bw/d  
- Consumers, Long-term, systemic (Dermal) DNEL = 357,000 mg/kg bw/d  
- Consumers, Long-term, systemic (Inhalative) DNEL = 124 mg/m<sup>3</sup>

**Exposure Limits**

No Data Available

**Biological Limits**

PNECs:

COMPONENT: Alkyl polyglycoside (C8-10) (CAS No. 68515-73-1):

- Fresh water, PNEC = 0.176 mg/l
- Marine water, PNEC = 0.0176 mg/l
- Intermittent release, PNEC = 0.27 mg/l
- Freshwater sediment, PNEC = 1.516 mg/kg dwt.
- Marine sediment, PNEC = 0.152 mg/kg dwt.
- Soil, PNEC = 0.654 mg/kg soil dw.
- Sewage treatment plant, PNEC = 560 mg/l
- Secondary poisoning (Predators, Oral), PNEC = 11,111 mg/kg feed.

**Engineering Measures**

Provide adequate ventilation, and local exhaust as needed. When vapours form: Withdraw by suction.

**Personal Protection Equipment**

Respiratory protection: In case of aerosol or vapours: Filter type A (organic).  
Eye protection: Tightly sealed goggles.  
Hand protection: Protective gloves (Nitrile rubber, breakthrough time: >480 min).  
Skin/body protection: Suitable protective clothing.

**Special Hazards Precautions**

No information available.

**Work Hygienic Practices**

Avoid contact with skin and eyes. Take off contaminated clothing and shoes, and wash before reuse. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Cloudy liquid
<b>Odour</b>	Weak, characteristic
<b>Colour</b>	Yellowish
<b>pH</b>	11.5 - 12.5 (at 20% in 15% IPA aq.)
<b>Vapour Pressure</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	No Data Available
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	Dispersible
<b>Specific Gravity</b>	No Data Available
<b>Flash Point</b>	>100 °C
<b>Auto Ignition Temp</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	No Data Available
<b>Density</b>	1.07 - 1.11 g/ml
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	320.22 g/mol (CAS No. 68515-73-1)
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	No Data Available
<b>Particle Size</b>	No Data Available
<b>Partition Coefficient</b>	No Data Available
<b>Saturated Vapour Concentration</b>	No Data Available

<b>Vapour Temperature</b>	No Data Available
<b>Viscosity</b>	200 - 600 mPa.s (@ 20 °C)
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	No Data Available
<b>Potential for Dust Explosion</b>	Not applicable.
<b>Fast or Intensely Burning Characteristics</b>	No information available.
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No information available.
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No information available.
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	May burn, but does not ignite readily.
<b>Reactions That Release Gases or Vapours</b>	In case of fire: Carbon monoxide and Carbon dioxide may be liberated.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Product is stable under normal conditions.
<b>Conditions to Avoid</b>	Keep away from ignition sources (no smoking, flares, sparks or flames).
<b>Materials to Avoid</b>	No information available.
<b>Hazardous Decomposition Products</b>	In case of fire: Carbon monoxide and Carbon dioxide may be liberated.
<b>Hazardous Polymerisation</b>	No information available.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	Eye damage/irritation: Causes serious eye damage.
<b>Acute</b>	
<b>Ingestion</b>	Acute Toxicity: - Oral, Rat (Male/Female) LD50: >2,000 mg/kg - Based on available data, the classification criteria are not met.
<b>Other</b>	Acute toxicity: - Dermal (Male/Female) LD50: >2,000 mg/kg - Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	Germ cell mutagenicity/genotoxicity: - Genotoxicity: Dermal, Rat (Male/Female): Negative - Chromosomal aberrations: Mammalian cells: Negative (OECD 474). - Based on available data, the classification criteria are not met.
<b>Reproduction</b>	Reproductive toxicity: - Oral, Rat (Male/Female): NOAEL: 1,000 mg/kg bw/d (OECD 421) - Based on available data, the classification criteria are not met.
<b>Chronic</b>	
<b>Ingestion</b>	Specific target organ toxicity (repeated exposure): - Oral, Rat NOAEL: 100 mg/kg bw/d (EU B.26) - Based on available data, the classification criteria are not met.
<b>Carcinogen Category</b>	None

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Aquatic toxicity: D-Glucopyranose, oligomers, decyl octyl glycosides: - Toxicity to fish: Acute (96 h) LC50: 126 mg/l - Toxicity to fish: Zebra fish, Long-term (28 d) NOEC: 1.8 mg/l - Toxicity to Daphnia: Daphnia magna, Acute (48 h) EC50: >100 mg/l - Toxicity to Daphnia: Daphnia magna, Chronic (21 d) EC10: 1.76 mg/l - Toxicity to Algae: Scenedesmus subspicatus (72 h) EC50: 27.22 mg/l - Toxicity to Crustacea: Corophium volutator, Chronic (10 d) NOEC: 262.16 mg/kg sediment dw
<b>Persistence/Degradability</b>	This product is completely biodegradable. - Biodegradability in Water (28 d): >99.4 % (aerobic). - Photochemical elimination (Air): DT50 = 2.6 h (D-Glucopyranose, dimers, C10-alkyl glycosides) DT50 = 4.81 h (Octyl D-glucoside) - Hydrolysis (at pH: 4, 7, 9): None
<b>Mobility</b>	Log KOC = 1.7 at 25 degC. Henry's Law Constant: 0.000000012 Pa m <sup>3</sup> /mol (25 degC).
<b>Environmental Fate</b>	Do not allow to enter into ground-water, surface water or drains.
<b>Bioaccumulation Potential</b>	Log P(o/w) = -0.07 at 40 degC. - Bio-accumulation is not to be expected (log P(o/w) <1).
<b>Environmental Impact</b>	No Data Available

## 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Dispose of waste/contaminated packaging according to applicable regulations.
<b>Special Precautions for Land Fill</b>	Handle contaminated packaging in the same way as the product itself.

## 14. TRANSPORT INFORMATION

### Land Transport (Australia)

ADG

<b>Proper Shipping Name</b>	Decyl glucoside, 50% aqueous solution
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available

### Land Transport (Malaysia)

ADR

<b>Proper Shipping Name</b>	Decyl glucoside, 50% aqueous solution
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available

**Special Provision** No Data Available

### Land Transport (New Zealand)

NZS5433

**Proper Shipping Name** Decyl glucoside, 50% aqueous solution  
**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

### Land Transport (United States of America)

US DOT

**Proper Shipping Name** Decyl glucoside, 50% aqueous solution  
**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

### Sea Transport

IMDG

**Proper Shipping Name** Decyl glucoside, 50% aqueous solution  
**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  
**EMS** No Data Available  
**Marine Pollutant** No

### Air Transport

IATA

**Proper Shipping Name** Decyl glucoside, 50% aqueous solution  
**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

### 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 &amp; Rail (ADG Code)

**15. REGULATORY INFORMATION****General Information** No Data Available**Poisons Schedule (Aust)** Not scheduled**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

**Approval Code** HSR003148**National/Regional Inventories**

<b>Australia (AICS)</b>	Listed
<b>Canada (DSL)</b>	Listed
<b>Canada (NDSL)</b>	Not Listed
<b>China (IECSC)</b>	Listed
<b>Europe (EINECS)</b>	500-220-1
<b>Europe (REACH)</b>	01-2119488530-36-
<b>Japan (ENCS/METI)</b>	Not Listed
<b>Korea (KECI)</b>	KE-17731
<b>Malaysia (EHS Register)</b>	Not Listed
<b>New Zealand (NZIoC)</b>	Listed
<b>Philippines (PICCS)</b>	Listed
<b>Switzerland (Giftliste 1)</b>	Not Determined
<b>Switzerland (Inventory of Notified Substances)</b>	Not Determined
<b>Taiwan (NCSR)</b>	Listed
<b>USA (TSCA)</b>	Listed

**16. OTHER INFORMATION**

<b>Related Product Codes</b>	SUFAKL0820, SUFAKL0821, SUFAKL1010, SUFAKL1011
<b>Revision</b>	2
<b>Revision Date</b>	20 Jul 2017
<b>Reason for Issue</b>	New SDS
<b>Key/Legend</b>	< Less Than > Greater Than <b>AICS</b> Australian Inventory of Chemical Substances



**atm** Atmosphere  
**CAS** Chemical Abstracts Service (Registry Number)  
**cm<sup>2</sup>** Square Centimetres  
**CO<sub>2</sub>** 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/cm<sup>3</sup>** 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  
**inH<sub>2</sub>O** Inch of Water  
**K** Kelvin  
**kg** Kilogram  
**kg/m<sup>3</sup>** Kilograms per Cubic Metre  
**lb** Pound  
**LC<sub>50</sub>** LC stands for lethal concentration. LC<sub>50</sub> 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.  
**LD<sub>50</sub>** LD stands for Lethal Dose. LD<sub>50</sub> 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  
**m<sup>3</sup>** Cubic Metre  
**mbar** Millibar  
**mg** Milligram  
**mg/24H** Milligrams per 24 Hours  
**mg/kg** Milligrams per Kilogram  
**mg/m<sup>3</sup>** Milligrams per Cubic Metre  
**Misc** or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.  
**mm** Millimetre  
**mmH<sub>2</sub>O** Millimetres of Water  
**mPa.s** Millipascals per Second  
**N/A** Not Applicable  
**NIOSH** National Institute for Occupational Safety and Health  
**NOHSC** National Occupational Health 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