

SAFETY DATA SHEET SUMMARY INFORMATION

For further information: Please refer to the Safety Data Sheet following

Issue: September 16

PRODUCT:	PowaWash	UN No.:	N/R
Other Names:	None	Dangerous Goods Class:	N/R
Uses:	Industrial Cleaner/Degreaser	Subsidiary Risk:	None
Pack Sizes:	5L, 20L, 200L, 1000L	Packing Group:	N/R
		Hazchem Code:	N/R
		Poisons Schedule:	5

Hazardous Class:	This product is classified as hazardous in accordance with Australian GHS guidelines.
Hazardous Category:	Flammable Liquids: 4; Aspiration Toxicant: 1; Skin Corrosion/Irritation: 3
Exposure Standards:	TWA: None specified; consider 5 g/m ³ ; STEL: None specified; consider 5 g/m ³ ; Peak Limitation (if any): None; Skin Sensitiser (if any): None. Refer to Section 8 for further information and definitions.

Physical Characteristics (Typical) Section 9 of the SDS

Appearance	Clear, orange, mobile liquid
Boiling Point/Range (°C):	> 150
Flash Point (°C):	62
Relative Density (g/100g @ 20°C):	1.02
Demulsibility (mins):	> 30
Reactivity:	Excessive heat, strong acids or bases, strong oxidising agents.

Product Ingredients Section 3 of the SDS

Ingredient	CAS Number	Proportion w/w%
Coconut methyl ester	61788-59-8	> 50
Orange Oil extract (d)	138-86-3	< 50
surfactants	various	< 10

For further ingredients information, please refer to the full SDS

GHS Pictograms Section 2 of the SDS



DEFINITIONS

Dangerous Goods	Products that are regulated for transport under the UN International guidelines are classified as Dangerous Goods. Products can be classified by their physical characteristics and may have only one Dangerous Goods designation, although may have a subsidiary risk. These products may be Dangerous Goods for transport by Air and Sea, but may not be classed as Dangerous Goods by Road and Rail in Australia. Refer to the Australian Code for Transport of Dangerous Goods by Road and Rail (ADG) for more information.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by virtue of their chemical nature, rather than as a condition of their misuse. These hazards include mutagens, teratogens, carcinogens, and products that are harmful or irritant in nature. These products may or may not carry a Dangerous Goods classification.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. The associated warnings, cautions and First Aid instruction are prescriptive under the regulation in Australia.

1. IDENTIFICATION

Product Name: PowaWash
Other Names: General Purpose Cleaner/Degreaser
Chemical Family: Emulsifiable blend
Recommended Use: General Purpose Cleaning, food safe
Supplier: Lanotec Australia Pty Ltd
ABN: 87 096 795 621
Address: 9 Achievement Crescent, Acacia Ridge QLD 4107
Telephone: +61 7 3373 3700
Fax: +61 7 3373 3777
Emergency Phone: 0400 712 081
All other inquiries: +61 7 3373 3700

2. HAZARDS IDENTIFICATION

Hazard Class

This product is classified as hazardous in accordance with Australian GHS guidelines.

Hazardous Categories

Flammable Liquids: 4; Aspiration Toxicant: 1; Skin Corrosion/Irritation: 3

GHS Pictograms



Hazardous Statements

H305: May be harmful if swallowed and enters airways
H317: May cause an allergic skin reaction
AUH066: Repeated exposure may cause skin dryness or cracking

Precautionary Statements

P102: Keep out of reach of children.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P501: Dispose of contents, or container in accordance with local/regional/national/international regulation.
P273: Avoid release to the environment.

Dangerous Goods Classification N/R

Poisons Schedule 5

Signal Word WARNING

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% w/w)
Coconut methyl ester	61788-59-8	> 50
Orange Oil extract (d)	138-86-3	< 50
surfactants	various	< 10

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, do NOT induce vomiting.

Eye Contact

If in eyes wash out immediately with water.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water

Inhalation

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

First Aid Facilities

Ventilation and respiratory aid.

Medical Attention

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Alcohol resistant foam, or dry chemical or foam. Do not use water jets. Will emulsify.

Hazards from combustion products

Carbon dioxide, carbon monoxide and other organic complexes on incomplete combustion or oxidation.

Hazardous Decomposition

This product is combustible and will fuel a fire in progress. Carbon monoxide, carbon dioxide, and other organic complexes will be produced on incomplete burning or oxidation.

Hazardous Polymerisation

Will not occur

Precautions for fire fighters and special protective equipment

Fully self-contained breathing apparatus, full suit and helmet, and protective boots and gloves.

Hazchem Code

N/R

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

This product is combustible and will fuel a fire in progress. Observe standard operating procedures for managing a blaze involving chemicals which can emit toxic vapours. There are chemical reactions that can take place through hydrolysis (reactions with water vapour) creating corrosive mixtures, and vapour hazards. Heat and flame will accelerate the oxidation process which can result in hazardous decomposition mixtures: carbon dioxide and carbon monoxide. Ensure the extinguishing media and any fire-fighting run-off is contained from contributing to environmental contamination, other chemical reaction hazards in adjacent areas, or expansion of the fire-affected area.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.

- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Store in a well-ventilated area away from incompatible materials such as strong acids and bases, and strong oxidising materials. Check containers for integrity periodically, and vent containers in hot weather. Employ good industrial hygiene when using this product, i.e. wash hands before and after use.

Conditions for Safe Storage

This product is combustible and will fuel a fire in progress. Avoid extreme heat, direct sunlight, naked flames and ignition sources. Store any chemicals in bunded or designated areas. Take precautions against static discharge.

Incompatible Materials

None identified

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for the liquid component of this product is: Recommended: None specified; consider 5 g/m³, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: Recommended: None specified; consider 5 g/m³, which is the maximum allowable exposure concentration at any time. The liquid product component of this product is isolated in an aerosol device.

Biological Limit Values (BLV)

None specified

Engineering Controls: Ventilation for sprays and aerosols

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment for any atomised products such as aerosols.

Personal Protective Equipment

Respiratory Protection: Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type ‘A’ filter material is considered suitable for this product.

Eye Protection: Eye Protection: Consider using safety glasses or other eye protection

Skin/Body Protection: Skin/Body Protection: Consider wearing long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended to consider wearing protective gloves when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Clear, orange, mobile liquid
Boiling Range	°C	> 150
Density	g/ml	1.02
Flash Point	°C	62
Explosive Limits	%	Not determined
<u>Solubility of Product</u>		
in Water	g/l	Miscible
in other solvents	(name)	Hydrocarbons, organic solvents
Autoignition Temperature	°C	> 250

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure

Conditions to avoid

None identified

Hazardous reactions

Excessive heat, strong acids or bases, strong oxidising agents.

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

This product may cause discomfort on swallowing and result in gastric disturbances. Do not induce vomiting, but give water to drink. Treat symptomatically.

Eye Contact

This product will be irritating to eyes resulting in redness, swelling, tearing, and soreness. First aid will alleviate symptoms. Contact is unlikely to result in permanent eye damage.

Skin Contact

This product will be irritating to skin, particularly at elevated temperatures. Washes off with water. Launder affected clothing before reuse.

Inhalation

This product may be irritating on inhalation or when working in confined spaces. Avoid inhaling mists of this product and do not concentrate vapours intentionally.

Chronic Effects

Some individuals may experience irritant contact dermatitis with this product, and even develop some sensitivity. PPE precautions will limit the effect of contact.

Other Health Effects Information

Individuals with pre-existing skin conditions may be sensitive to this product.

Toxicological Information

Oral LD₅₀: Inhalation (rat): 5300 mg/m³

Inhalation TC_{Lo}: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: Liquid Component (isolated)

Aquatic Toxicity:

Fish Toxicity LC₅₀: Brine Shrimp: 1470000 µg/L

Daphnia Magna EC₅₀: 39000 µg/L

Blue-green algae: No data available

Green algae: IC₅₀: 13798 µg/L

Mobility/Biodegradability: This product is expected to biodegrade within 28 days.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

This product must be disposed in accordance with the local authority in chemical waste management.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment in accordance with the local authority, or considered for use in recycling.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	N/R	UN No.	N/R	UN No.	N/R
Proper Shipping Name	Emulsifiable Degreaser	Proper Shipping Name	Emulsifiable Degreaser	Proper Shipping Name	Emulsifiable Degreaser
DG Class	N/R	DG Class	N/R	DG Class	N/R
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	N/R	Packing Group	N/R	Packing Group	N/R
Hazchem	N/R	Hazchem	N/R	Hazchem	N/R

Dangerous Goods Segregation

This product is Class N/R, packing group N/R, regulated for Transport via Road and Rail.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule: 5

16. OTHER INFORMATION

Reasons for Issue: New product formulation. Amalgamated changes in all sections.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

PPE: Personal Protective Equipment

N/R: Non-regulated

N/A: Not applicable

References:

- Supplier Safety Data Sheets
- <http://hsis.ascc.gov.au/SearchHS.aspx> (September 16)
- Animal toxicology data: <http://chem.sis.nlm.nih.gov/chemidplus> (September 16)
- Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (September 16)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Lanotec Australia Pty Ltd.
