



LEMONDROP DISHWASH

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Safety Data Sheet

Section 1 – Identification

Product Identifier	
Product name	LEMON DROP DISHWASH
Chemical name	Not Applicable
Synonyms	Product code: UBLEMONDROP
Proper shipping name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	Not Applicable
CAS number	Not Applicable

Recommended use of the chemical and restrictions on use	
Relevant identified uses	Manual dishwash detergent.

Details of the manufacturer or importer	
Registered company name	ECOCLEAN UTILITY AGENCIES Pty Ltd
Address	26 Notar Drive, Ormeau, Queensland, Australia, 4208
Telephone	07 5549 3666
Website	www.ecocleanavantichem.com.au
Emergency phone number	Poisons Information Centre: Phone 13 11 26

Emergency Telephone Number	
Association / Organisation	Poisons Information Centre
Emergency telephone number	13 11 26
Other emergency telephone numbers	In an emergency telephone 000, for fire, police and ambulance.

Section 2 – Hazard(s) Identification

Classification of the substance or mixture	
Poisons Schedule	Not scheduled
GHS Classification	Eye Irritation Category 2A

Label elements



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GHS label pictograms	
Signal word	WARNING

Hazard statement(s)	
H319	Causes serious eye irritation

Precautionary statement(s): Prevention	
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves and eye protection/face protection.

Precautionary statement(s): Response	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Precautionary statement(s): Storage	
	None allocated

Precautionary statement(s): Disposal	
	None allocated

Note	
IMPORTANT	This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied. When diluted to 1:2 or greater they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

Section 3 – Composition and Information on Ingredients

Ingredient	CAS Name	Proportion
Sodium dodecylbenzene sulphonate	25155-30-0	< 10% w/w
Sodium lauryl ether sulfate	68585-34-2	< 10% w/w
Cocamide monoethanolamide	68140-00-1	<10% w/w
Ingredients determined to be non-hazardous	Various	<10% w/w
Water	7732-18-5	>60% w/w



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NOTE:	Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) , 4th edition United Nations 2011. Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects.
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Section 4 – First Aid Measures

Description of necessary first aid measures	
Eye Contact	If this product comes in contact with eyes: <ul style="list-style-type: none"> • Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. • Immediately call a POISON CENTER or doctor/physician.
Skin contact	If skin contact occurs: <ul style="list-style-type: none"> • Remove / take off immediately all contaminated clothing • Rinse skin with water/shower • Wash contaminated clothing before reuse
Inhalation	<ul style="list-style-type: none"> • Remove victim to fresh air and keep at rest in a position comfortable for breathing • If respiratory symptoms: Immediately call POISON CENTER or doctor. • Treat symptomatically.
Ingestion	<ul style="list-style-type: none"> • Rinse mouth. • Do NOT induce vomiting. • Immediately call a POISON CENTER or doctor/physician.

Symptoms caused by exposure	
	Causes serious eye irritation.

Medical attention and special treatment	
	Treat symptomatically

Section 5 – Fire Fighting Measures

Suitable extinguishing equipment / media	
	<ul style="list-style-type: none"> • Use an extinguishing media suitable for surrounding fires. • Water spray or fog. • Foam. • Dry Chemical Powder • BCF (where allowed) • Carbon dioxide



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Special hazards arising from the chemical	
Fire incompatibility	No known incompatibility.

Special protective equipment and precautions for fire fighters	
Fire Fighting	<ul style="list-style-type: none"> Alert Fire Brigade and tell them the location and the nature of the hazard. Wear full body protective clothing with breathing apparatus. Prevent spillage from entering drains or watercourse. Keep away from hot containers. Cool hot containers with water spray.
Fire/Explosion Hazard	<ul style="list-style-type: none"> Non-combustible Not considered to be a considerable fire risk. Containers may explode on heating. May emit acid smoke. May emit corrosive fumes. Decomposition may product toxic fumes of decomposition.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	
Minor spills	<ul style="list-style-type: none"> Clean up spills immediately. Avoid contact with skin and eyes. Use Personal Protective Equipment. Contain and absorb spill with vermiculite or other suitable material. Sweep or wipe up. Place in a suitable container for disposal.
Major spills	<ul style="list-style-type: none"> Clear area of personnel. Use Personal Protective Equipment. Prevent spill from entering drains or watercourse. If contamination occurs contact emergency services. Contain and absorb spill with vermiculite or other suitable material. Label collected material for disposal. Decontaminate if necessary (see section 13). Launder and clean all protective equipment prior to being re-used.

Environmental precautions	
	<ul style="list-style-type: none"> Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT.



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	<ul style="list-style-type: none"> Inform local authorities if this occurs.
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Methods and materials for containment and cleaning up

	Personal protective equipment advice is contained in Section 8 of the SDS
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Section 7 – Handling and Storage

Precautions for safe handling

Safe handling	<ul style="list-style-type: none"> Wear prescribed protective clothing. Do NOT eat, drink or smoke when handling. Wash hands after use. Keep containers closed tightly when not in use. Store in accordance to manufacturer's instructions.
Other information	<ul style="list-style-type: none"> Store in original containers. Store in a cool, dry, well ventilated area out of direct sunlight.

Conditions for safe storage, including any incompatibilities

Suitable container	<ul style="list-style-type: none"> Not to be transported in unlined metal drums. Lined metal can, lined metal pail/can. Plastic pail. Polyliner drum. Packaging as recommended by manufacturer.
Storage incompatibility	<ul style="list-style-type: none"> No known incompatibilities.

Section 8 – Exposure controls and personal protection

Control parameters

Occupational Exposure Limits (OEL)	See Ingredients Data and Emergency Limits below.
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Ingredients data

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australian Exposure Standards	Not available	Not available	Not available	Not available	Not available	Not available

Emergency limits

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
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not available	not available	not available	not available	not available
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IDLH data		
Ingredient	Original IDLH	Revised IDLH
Not available	Not available	Not available

Exposure controls	
Appropriate engineering controls	<ul style="list-style-type: none"> Use in a well ventilated area. General exhaust is adequate under normal operating conditions.
Personal protection	 <ul style="list-style-type: none"> Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure.
Eye and face protection	<ul style="list-style-type: none"> Generally not required to handle diluted solutions of the product as per label directions. The use of safety glasses with side shield protection, goggles or face shield is recommended to handle concentrate in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
Skin protection	<ul style="list-style-type: none"> See hand protection below
Hand protection	<ul style="list-style-type: none"> Generally not required to handle diluted solutions of the product as per label directions. Overalls, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.
Body protection	<ul style="list-style-type: none"> Wear safety footwear. Work clothes.
Respiratory protection	<ul style="list-style-type: none"> Generally not required to handle diluted solutions of the product as per label directions. For confined spaces, cleaning up spills, etc, consider Type A Filter of sufficient capacity (AS/NZS 1716 & 1715, EN143:2000, ANSI Z88 or national equivalent). Where the concentration of gas/particulates in the breathing zone,



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	approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter the nature of the protection varies with Type of filter.
Other protection	<ul style="list-style-type: none"> Ensure there is access to eye washes and safety showers.
Thermal hazards	<ul style="list-style-type: none"> None expected

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	yellow coloured liquid		
Physical state	Viscous liquid	Relative density (water=1)	1.01– 1.04 @ 25 °C
Odour	faint	Partition coefficient n-octanol/water	Not available
Odour threshold	Not applicable	Auto-ignition temperature (°C)	Not flammable
pH (as supplied)	7.2 – 8.5	Decomposition temperature	Not available
Melting Point / Freezing Point (°C)	Not available	Viscosity (cSt)	Not available
Initial boiling point and boiling range (°C)	Not available	Molecular weight (g/mol)	Not available
Flash point (°C)	Not flammable	Taste	Not available
Evaporation rate	Not available	Explosive properties	none
Flammability	Not flammable	Oxidising properties	Not available
Upper Explosive Limit (%)	none	Surface Tension (dyn/cm or mN/m)	Not available
Lower Explosive Limit (%)	none	Volatile Component (%vol)	Approx. 80-85% v/v
Vapour pressure (kPa)	Not available	Gas group	Not applicable
Solubility in water (g/L)	Miscible in all proportions	pH as a solution (1%)	7.2 – 8.5
Vapour density (Air=1)	Not determined	Volatile organic compounds (VOC)	0%

Section 10 – Stability and Reactivity

Reactivity	Stable at normal temperatures and pressure.
Chemical stability	Stable at normal temperatures and pressure.
Possibility of hazardous	Not expected.



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reactions	
Conditions to avoid	Avoid contact with heat or heat sources.
Incompatible materials	Reducing agents, oxidizing agents.
Hazardous decomposition products	Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.

Section 11 – Toxicological Information

Information on toxicological effects	
Inhaled	No vapour or mist generally associated with liquid form of the product – water based detergent liquid.
Ingestion	This product may cause irritation of the mouth, throat, oesophagus and stomach, nausea and vomiting.
Skin contact	Concentrated product may cause skin irritation. Prolonged contact with concentrated solutions may be irritating. Properly diluted wash solutions not expected to be irritating.
Eyes	This product may cause severe eye irritation, watering, redness.
Chronic	Prolonged and repeated skin contact with diluted solutions may induce dermatitis.

Individual constituents			
SPRING LEMON DISHWASH (as sold)			
TOXICITY	Not toxic, based on ingredients. Oral LD50 (calculated) : > 10,000 mg/kg	IRRITATION	Causes serious eye irritation, based on ingredients.

Cocamide monoethanolamide			
Acute Toxicity	LD50 : > 3,000 mg/kg - Rat , male and female Method: OECD Test Guideline 401 Acute dermal toxicity LD50 : > 2,000 mg/kg - Rabbit , male and female The substance or mixture has no acute dermal toxicity	Carcinogenicity	NO
Skin Irritation/Corrosion	Skin Corrosion/Irritation Category 2 H315: Causes skin irritation	Reproductivity	NO
Serious Eye Damage/Irritation	Serious Eye Damage/Eye Irritation Category 2/2A H319: Causes serious eye irritation	STOT – Single Exposure	NO
Respiratory or Skin	NO	STOT – Repeated Exposure	NO



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sensitivity			
Mutagenicity	NO	Aspiration Hazard	NO

Sodium lauryl ether sulphate			
Acute Toxicity	Acute Oral Toxicity: LD50 >2000 - <=5000 mg/kg , Rat	Carcinogenicity	Not listed as a carcinogen NTP, IARC, OSHA, EPA.
Skin Irritation/Corrosion	Acute Dermal Toxicity: LD50 >2000 - <=5000 mg/kg , Rat Irritating to skin.	Reproductivity	Does not impair fertility. Not a developmental toxicant.
Serious Eye Damage/Irritation	Risk of serious damage to eyes.	STOT – Single Exposure	No data available
Respiratory or Skin sensitivity	Not a skin sensitiser.	STOT – Repeated Exposure	No data available
Mutagenicity	No data available	Aspiration Hazard	No data available

Sodium dodecylbenzenesulphonate			
Acute Toxicity	438 mg/kg oral-rat LD50; 1330 mg/kg oral-mouse LD50; 105 mg/kg intravenous-mouse LD50; 3040 mg/kg/30 day(s) continuous oral-rat TDLo; 5 gm/kg/30 day(s) intermittent oral-mouse TDLo.	Carcinogenicity	Not listed as a carcinogen NTP, IARC, OSHA, EPA.
Skin Irritation/Corrosion	20 mg/24 hour(s) skin-rabbit moderate; 250 ug/24 hour(s) eyes-rabbit severe; 1 percent eyes-rabbit severe.	Reproductivity	No data available
Serious Eye Damage/Irritation	EYE IRRITATION (rabbit): Severe eye irritant	STOT – Single Exposure	No data available
Respiratory or Skin sensitivity	No data available	STOT – Repeated Exposure	No data available
Mutagenicity	No data available	Aspiration Hazard	No data available

Section 12 – Ecological Information

Aqua-Toxicity

SPRING LEMON DISHWASH (as sold)	Acute Aquatic Toxicity (Calculated) LC50: 50 - 70 mg/L. Harmful to aquatic organisms. Acute Aquatic Toxicity Category 3.
SPRING LEMON DISHWASH (at use dilution 1:100 rinse)	Acute Aquatic Toxicity (Calculated) LC50: 5,000 – 7,000 mg/L. Acute Aquatic Toxicity NOT HAZARDOUS Not harmful to aquatic life. LC50 > 100mg/L.

Ingredients:

Sodium lauryl ether sulphate	Fish: 96hr-LC50 = 4.6 - 7.1mg/L - 96 h
Sodium dodecylbenzenesulphonate	LC50 - Oncorhynchus mykiss (rainbow trout) - 3.2 - 5.6 mg/l - 96 h



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Cocamide monoethanolamide	<p>LC50 - 96 h : > 3 mg/l - Oncorhynchus mykiss (rainbow trout) semi-static test.</p> <p>EC50 - 48 h : 3 mg/l - Daphnia magna (Water flea) static test Analytical monitoring: yes Method: OECD Test Guideline 202.</p> <p>ErC50 - 72 h : 3.9 mg/l - Scenedesmus subspicatus static test Method: OECD Test Guideline 201</p> <p>NOEC - 72 h : 0.3 mg/l - Scenedesmus subspicatus static test Method: OECD Test Guideline 201.</p> <p>NOEC: 0.32 mg/l - 28 Days - Oncorhynchus mykiss (rainbow trout) flow-through test Analytical monitoring: yes Method: OECD Test Guideline 204 Method: OECD Test Guideline 204 By analogy Unpublished reports Harmful to fish with long lasting effects.</p>
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Persistence and degradability		
Ingredient	Persistence: Water/Soil	Persistence: Air
Sodium dodecylbenzenesulphonate	Readily biodegradable - according to Australian Standard AS4351.	Not Available
Sodium lauryl ether sulphate	Readily biodegradable	Not Available
Cocamide monoethanolamide	Readily biodegradable. According to the data on the components. The product is considered to be rapidly degradable in the environment	Not available

Bioaccumulative potential	
Ingredient	Bioaccumulation
Sodium dodecylbenzenesulphonate	No bioaccumulation is expected.
Sodium lauryl ether sulphate	Does not bioaccumulate significantly.
Cocamide monoethanolamide	Not available

Mobility in soil	
Ingredient	Mobility
Sodium lauryl ether sulphate	Dissolves in water. If product enters soil, it will be highly mobile and may contaminate groundwater.
Sodium dodecylbenzenesulphonate	Due to its physico-chemical characteristics, highly mobile in the environment and will partition to the aquatic compartment.
Cocamide monoethanolamide	Not available



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Section 13 – Disposal considerations

Waste treatment methods	
Product and Packaging Disposal	Recycle wherever possible or consult manufacturer for recycling options. Consult state land waste authority for disposal. Bury or incinerate residue at the approved site. Recycle containers if possible, or dispose of in an authorised landfill.

Section 14 – Transport Information

Labels Required	
Transport pictogram	None Allocated
Marine Pollutant	None Allocated
HAZCHEM	None Allocated

Land Transport (ADG)	
UN Number	None Allocated
Packing Group	None Allocated
UN Proper shipping name or Technical name	None Allocated
Environmental hazard	No relevant data
Transport hazard class(es)	None Allocated
Special Precautions for user	None Allocated None Allocated
Additional information	Not Available

Section 15 – Regulatory Information

Health, safety and environment regulations	
Poisons Schedule	Not scheduled

Section 16 – Other Information

Issue Date	13 th June 2016
Version Number	2.0
Abbreviations and acronyms	<ul style="list-style-type: none"> ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail. AICS: Australian Inventory of Chemical Substances.



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	<ul style="list-style-type: none"> • CAS Number: Chemical Abstracts Service Registry Number. • GHS: Globally Harmonized System of Classification and Labelling of Chemicals • HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services. • HSIS: Hazardous Substances Information System • IARC: International Agency for Research on Cancer. • NOHSC: National Occupational Health and Safety Commission. • NTP: National Toxicology Program (USA). • SDS: Safety Data Sheet • STEL: Short Term Exposure Limit. • SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons. • TWA: Time Weighted Average. • UN Number: United Nations Number.
<p>Literature references</p>	<ul style="list-style-type: none"> • Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (December 2011 – Safe Work Australia) • GHS Hazardous Chemical Information List (September 2014 – Safe Work Australia) • Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. April 2012. Safe Work Australia. • Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition. • “Australian Exposure Standards” • List of Designated Hazardous Substances [NOHSC:10005(1999)] • Australian Code For The Transport Of Dangerous Goods By Road And Rail – 7th Edition. • Standard for the Uniform Scheduling of Medicines and Poisons 2015. • Material Safety Data Sheets – individual raw materials – Suppliers. • Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)] • HSIS – Hazardous Substance Information System – National Worksafe Data Base. • LABELLING OF WORKPLACE HAZARDOUS CHEMICALS, Code of Practice, DEC 2011 • IMPLEMENTATION OF THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) APRIL 2012
<p>Risk assessments</p>	<p>This SDS is a tool to communicate hazards which can assist you in creating relevant risk assessments for your workplace. There are many variables in determining whether a particular hazard is a risk in your workplace. Keep in mind this may be influenced by such things as the amount used, frequency of use, engineering controls, effectiveness of safety training and many more considerations.</p>
<p>Disclaimer</p>	<p>Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This SDS summarises our best knowledge of the health and safety</p>



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	hazard information of the product and how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact XO2 Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.
Copyright	This document is copyright.
End of SDS	

Document Revision History

Revision Version #	Date	Reason for revision
Draft		GHS format
2.0	13.06.2016	Review by Tuwai Specialties. tuwai.wt@bigpond.com
3.0		