

SECTION 1: Identification

1.1. Product identifier

Product name : LEMON DISH
Product code : 1100700

1.2. Recommended use and restrictions on use

Recommended use : Manual dish detergent
Restrictions on use : Food Plant, Industrial and Institutional use only

1.3. Supplier

Project Clean Inc.
12 James St N, Suite 201A
Hamilton, Ontario L8R 2J9
T 1 800 663 9925
regulatory@projectclean.com - www.projectclean.ca

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Canada	CHEMTREC Chemical Emergency	www.chemtrec.com	1 800 424 9300	24hr/day 7days/week within USA and Canada
Canada	CANUTEC Transportation Emergency	www.canutec.com	1 888 226 8832 *666 on a cell phone	24hr/day 7days/week within USA and Canada

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture



Classification (GHS CA)

Skin corrosion/irritation, Category 1 H314 Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.
Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA) :  

Signal word (GHS CA) : Danger

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Hazard statements (GHS CA)	: H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.
Precautionary statements (GHS CA)	: P260 - Do not breathe fume, mist, vapours, or spray. P261 - Avoid breathing fume, mist, vapours, or spray. P264 - Wash hands and affected area thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves, protective clothing, and eye protection. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P302+P352 - IF ON SKIN: Wash with plenty of water. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. P321 - Specific treatment (see supplemental first aid instruction on the product SDS). P333+P313 - If skin irritation or rash occurs: Get medical advice or attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P501 - Dispose of contents and or container to city, provincial, or federal regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	% w/w
Alkyl (C10-16) benzenesulfonic acid	Benzenesulfonic acid alkyl(C=10-16) derivs.	CAS-No.: 68584-22-5	5 - 10
N,N-bis(hydroxyethyl)coco amides	N,N-bis(2-hydroxyethyl) cocoamide	CAS-No.: 68603-42-9	1 - 5
Dipropylene glycol	Oxi-dipropanol	CAS-No.: 25265-71-8	0.1 - 1

*The exact concentrations have been withheld as a trade secret. Les concentrations exactes ont été retenues en tant que secret commercial.

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
- First-aid measures after skin contact : Rinse skin with water or shower. Take off immediately all contaminated clothing. Call a physician immediately.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.
- First-aid measures general : Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Serious damage to eyes.
- Symptoms/effects after ingestion : Burns.
- Chronic symptoms : No effects known.
- Expected Symptoms/Effects, Acute and Delayed : Corrosion of the eye tissue. May cause skin irritation, dermatitis, or skin burns. May produce an allergic reaction. Irritating to the digestive tract. May cause burns.

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate area.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

General measures : Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood. Clean up any spills as soon as possible, using an absorbent material to collect it.

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or face shield with safety glasses. Corrosion-proof suit (EN 14605). Dust cloud production: self-contained breathing apparatus (EN 136 + EN 137). Protective goggles (EN 166). Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe fume, mist, vapours, or spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls or personal protection".

Emergency procedures : Evacuate unnecessary personnel. Ventilate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe fume, mist, vapours, or spray. Wear personal protective equipment.

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Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong oxidizing agents. Flammable liquids. Ammonium nitrate (AN). Organic peroxides.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Materials for protective clothing:
Nitrile rubber/PVC
Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Not required for normal conditions of use
Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Yellow liquid. Clear liquid.
Colour	: Yellow
Odour	: Lemon odour
Odour threshold	: No data available
pH	: 6 – 8
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: ≥ 100 °C
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: No data available
Upper and lower flammability or explosive limit	: No data available, Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 1 – 1.05
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Viscous liquid
Explosive properties	: Not explosive.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.

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Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: Organic materials. Strong oxidizing agents. Ammonium nitrate. Organic peroxides. Flammable liquids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

LEMON DISH	
LD50 oral rat	19230.8 mg/kg
LC50 Inhalation - Rat	21.4 mg/l/4h
Alkyl (C10-16) benzenesulfonic acid (68584-22-5)	
LD50 oral rat	1350 (500 – 2000) mg/kg Source: IUCLID;
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	> 1.9 mg/l Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:
ATE CA (oral)	1350 mg/kg bodyweight
ATE CA (dust,mist)	1.5 mg/l/4h
N,N-bis(hydroxyethyl)coco amides (68603-42-9)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2000 mg/kg Source: NLM; ChemIDPlus;
Dipropylene glycol (25265-71-8)	
LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 5010 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)

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Dipropylene glycol (25265-71-8)	
LC50 Inhalation - Rat	2.34 mg/l (Equivalent or similar to OECD 403, Rat, Male / female, Experimental value, Inhalation)
ATE CA (vapours)	2.34 mg/l/4h
ATE CA (dust,mist)	2.34 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Alkyl (C10-16) benzenesulfonic acid (68584-22-5)	
NOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Aspiration hazard	: Not classified
Likely routes of exposure	: Skin and eyes contact. Inhalation. Ingestion.
Expected Symptoms/Effects, Acute and Delayed	: Corrosion of the eye tissue. May cause skin irritation, dermatitis, or skin burns. May produce an allergic reaction. Irritating to the digestive tract. May cause burns.
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
Chronic symptoms	: No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

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Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

LEMON DISH	
Partition coefficient n-octanol/water (Log Pow)	No data available
Alkyl (C10-16) benzenesulfonic acid (68584-22-5)	
LC50 - Fish [1]	3 mg/l Source: IUCLID
EC50 - Crustacea [1]	2.9 mg/l Source: IUCLID
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	170 mg/l Source: IUCLID
Partition coefficient n-octanol/water (Log Pow)	2
N,N-bis(hydroxyethyl)coco amides (68603-42-9)	
LC50 - Fish [1]	4 mg/l (96 h, Brachydanio rerio, Semi-static system)
EC50 - Crustacea [1]	2.39 mg/l (48 h, Daphnia pulex)
EC50 96h - Algae [1]	2.2 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus)
Partition coefficient n-octanol/water (Log Pow)	3.52 (Calculated)
Dipropylene glycol (25265-71-8)	
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value)
LC50 - Fish [2]	> 1000 mg/l Test organisms (species): Oryzias latipes
LC50 - Other aquatic organisms [1]	3181 mg/l (Other, 48 h, Xenopus laevis, Fresh water, Experimental value)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Fresh water, Experimental value)
EC50 96h - Algae [1]	1064.8 mg/l Source: ECOTOX

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Dipropylene glycol (25265-71-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.462 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)

12.2. Persistence and degradability

LEMON DISH

Persistence and degradability Not established.

N,N-bis(hydroxyethyl)coco amides (68603-42-9)	
Persistence and degradability	Readily biodegradable in water.

Dipropylene glycol (25265-71-8)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

LEMON DISH

Bioaccumulative potential No test data of component(s) available.

Partition coefficient n-octanol/water (Log Pow) No data available

Alkyl (C10-16) benzenesulfonic acid (68584-22-5)	
Partition coefficient n-octanol/water (Log Pow)	2

N,N-bis(hydroxyethyl)coco amides (68603-42-9)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	3.52 (Calculated)

Dipropylene glycol (25265-71-8)	
Bioaccumulative potential	Bioaccumulation: not applicable.
Partition coefficient n-octanol/water (Log Pow)	-0.462 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)

12.4. Mobility in soil

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Ecology - soil No (test) data on mobility of the substance available.

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Partition coefficient n-octanol/water (Log Pow) No data available

Alkyl (C10-16) benzenesulfonic acid (68584-22-5)	
Mobility in soil	1064
Partition coefficient n-octanol/water (Log Pow)	2
N,N-bis(hydroxyethyl)coco amides (68603-42-9)	
Mobility in soil	45.02
Partition coefficient n-octanol/water (Log Pow)	3.52 (Calculated)
Dipropylene glycol (25265-71-8)	
Surface tension	71.4 mN/m (22 °C, 1.01 g/l)
Ecology - soil	Low potential for adsorption in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	-0.462 (Test data, Equivalent or similar to OECD 107, 21.7 °C)

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents and or container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not applicable

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14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : Not applicable

14.4. Packing group

Packing group (TDG) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Alkyl (C10-16) benzenesulfonic acid (68584-22-5)

Listed on the Canadian DSL (Domestic Substances List)

N,N-bis(hydroxyethyl)coco amides (68603-42-9)

Listed on the Canadian DSL (Domestic Substances List)

Dipropylene glycol (25265-71-8)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Alkyl (C10-16) benzenesulfonic acid (68584-22-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

N,N-bis(hydroxyethyl)coco amides (68603-42-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Dipropylene glycol (25265-71-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date : 12/13/2023

Full text of H-statements:

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. Project Clean Inc. will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.