

## SECTION 1: Identification

### 1.1. Identification

Product name : LIQUID DISH NATURAL  
Product code : A310030

### 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.  
2330 Industrial Parkway SW  
Dyersville, IA 52040  
T 1 800 663 9925  
[www.projectclean.com](http://www.projectclean.com)

### 1.4. Emergency telephone number

Country/Area	Organization/Company	Address	Emergency number	Comment
USA	CHEMTRAC Chemical Emergency	<a href="http://www.chemtrec.com">www.chemtrec.com</a>	1 800 424 9300	24hr/day 7days/week within USA and Canada
USA	CANUTEC Transportation Emergencies	<a href="http://www.canutec.com">www.canutec.com</a>	1 888 226 8832 *666 on a cell phone	24hr/day 7days/week within USA and Canada

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS US classification

Skin corrosion/irritation, Category 2 H315 Causes skin irritation.  
Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H315 - Causes skin irritation  
H318 - Causes serious eye damage

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Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling. P302+P352 - If on skin: Wash with plenty of 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. P321 - Specific treatment (see supplemental first aid instruction on the SDS). P332+P313 - If skin irritation occurs: Get medical advice or attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P280 - Wear protective gloves, protective clothing, and eye protection.

### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Harmful to aquatic life with long lasting effects.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Sulfuric acid monoalkyl(C=10-16) esters, sodium salts	CAS-No.: 68585-47-7	5 – 10
N,N-dimethyltetradecylamine N-oxide	CAS-No.: 3332-27-2	1 – 5
Glycolipids, sophorese-contg, Stamerella bombicola-fermented, from cooking oil wastes and sucrose	Proprietary	1 – 5

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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 general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice or attention.

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 : Call a poison center/doctor/physician if you feel unwell.

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

Expected Symptoms/Effects, Acute and Delayed	: May cause dermatitis, eye irritation, corneal edema and chemical burns. Repeated or prolonged contact may cause skin irritation.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: None under normal conditions.
Chronic symptoms	: No effects known.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
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

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Safety glasses (EN 166). Standard EN 374 - Protective gloves against chemicals.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.

#### 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. Stop leak if safe to do so.

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### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. 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

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Keep cool. Protect from sunlight.
Incompatible products	: Strong oxidizing agents. Strong reducing agents.
Packaging materials	: Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### LIQUID DISH NATURAL

No additional information available

#### N,N-dimethyltetradecylamine N-oxide (3332-27-2)

No additional information available

#### Sulfuric acid monoalkyl(C=10-16) esters, sodium salts (68585-47-7)

No additional information available

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### Glycolipids, sophorese-contg, Stamerella bombicola-fermented, from cooking oil wastes and sucrose

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:

Wear recommended personal protective equipment.

##### Hand protection:

Protective gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear, tan liquid. Thick liquid.
Color	:	Tan color
Odor	:	No added fragrance
Odor threshold	:	No data available
pH	:	8 – 10
Melting point	:	Not applicable
Freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available

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Relative evaporation rate (butyl acetate=1)	:	No data available
Upper and lower flammability or explosive limit	:	No data available Not applicable.
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	1,01 – 1,05
Solubility	:	Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	Not self-igniting
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	1000 – 1500 cP
Explosion limits	:	No data available
Explosive properties	:	Product is not explosive.
Oxidizing properties	:	No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	:	No data available
Acute toxicity (dermal)	:	No data available

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Acute toxicity (inhalation) : No data available

### N,N-dimethyltetradecylamine N-oxide (3332-27-2)

LD50 oral rat	> 1495 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	500 mg/kg body weight

### Sulfuric acid monoalkyl(C=10-16) esters, sodium salts (68585-47-7)

LD50 oral rat	> 2000 mg/kg Source: IUCLID, TOMES; LOLI;
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available

### N,N-dimethyltetradecylamine N-oxide (3332-27-2)

NOAEL (oral, rat, 90 days)	40 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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Aspiration hazard	: No data available
Viscosity, kinematic	: No data available
Likely routes of exposure	: Skin and eye contact.
Expected Symptoms/Effects, Acute and Delayed	: May cause dermatitis, eye irritation, corneal edema and chemical burns. Repeated or prolonged contact may cause skin irritation.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: None under normal conditions.
Chronic symptoms	: No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

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<b>N,N-dimethyltetradecylamine N-oxide (3332-27-2)</b>	
LC50 - Fish [1]	0,16 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	0,086 mg/l Source: Ecological Structure Activity Relationships
LC50 - Fish [2]	2,4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
NOEC (chronic)	0,7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0,42 mg/l Test organisms (species): Pimephales promelas Duration: '302 d'

### 12.2. Persistence and degradability

#### LIQUID DISH NATURAL

Persistence and degradability Contains readily biodegradable component(s).

### 12.3. Bioaccumulative potential

#### LIQUID DISH NATURAL

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

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

<b>N,N-dimethyltetradecylamine N-oxide (3332-27-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	5,66 Source: Chemical Substances Hazard Assessment Report/Initial Risk Assessment Report
Bioaccumulative potential	No test data available.

### Sulfuric acid monoalkyl(C=10-16) esters, sodium salts (68585-47-7)

Partition coefficient n-octanol/water (Log Pow) 2,18 Source: EPISUITE

### 12.4. Mobility in soil

#### LIQUID DISH NATURAL

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

<b>N,N-dimethyltetradecylamine N-oxide (3332-27-2)</b>	
Mobility in soil	3,99 Source: Quantitative Structure Activity Relation
Surface tension	32,4 – 32,5 mN/m (21 °C, 1.04 g/l, EU Method A.5: Surface tension)
<b>Sulfuric acid monoalkyl(C=10-16) esters, sodium salts (68585-47-7)</b>	
Mobility in soil	196,1

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### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents and or container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
Ecological waste information	: 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 (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable

### 14.3. Transport hazard class(es)

#### DOT

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

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

Transport hazard class(es) (IMDG)	: Not applicable
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### 14.4. Packing group

Packing group (DOT)	: Not applicable
Packing group (TDG)	: Not applicable
Packing group (IMDG)	: Not applicable

### 14.5. Environmental hazards

Other information	: No supplementary information available.
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### 14.6. Special precautions for user

#### DOT, TDG, IMDG

No data available

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### 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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Glycolipids, sophorese-contg, Stamerella bombicola-fermented, from cooking oil wastes and sucrose	Proprietary	1 – 5%
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

**N,N-dimethyltetradecylamine N-oxide (3332-27-2)**

Listed on the Canadian DSL (Domestic Substances List)

**Sulfuric acid monoalkyl(C=10-16) esters, sodium salts (68585-47-7)**

Listed on the Canadian DSL (Domestic Substances List)

**Glycolipids, sophorese-contg, Stamerella bombicola-fermented, from cooking oil wastes and sucrose**

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

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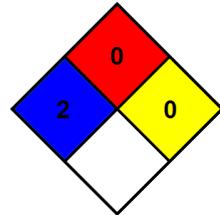
### Full text of hazard classes and H-statements

H315	Causes skin irritation
H318	Causes serious eye damage

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



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.