



MATERIAL SAFETY DATA SHEET

LIQUID DISH

Effective date:26-Feb-2016

SECTION 1 : IDENTIFICATION	
Product name:	LIQUID DISH DEGREASER
Chemical name :	Mixture of tensio-active agents
Product Use:	Liquid dish detergent
Chemical family :	Mixture of tensio-active agents
Supplier's name:	LAVO Inc
Address :	11900 Boul. Saint-Jean Baptiste Montréal, Québec Canada H1C 2J3
Telephone :	1-800-361-6898 or 514-526-7783
Emergency phone :	CANUTEC (transport) 1-613-996-6666

SECTION 2 : HAZARD IDENTIFICATION	
Emergency Overview	CAUTION / IRRITANT MAY CAUSE EYES IRRITATION. MAY CAUSE SKIN IRRITATION.
POTENTIAL HEALTH EFFECTS:	
Signs and symptoms of short-term (acute) exposure	
Eyes :	May cause irritation.
Skin :	May cause irritation.
Ingestion :	May cause stomach distress, nausea or vomiting.
Inhalation :	May cause respiratory tract irritation.
Target organs:	Eyes. Skin.
Effects of long-term (chronic) exposure :	Prolonged or repeated contact may cause drying, cracking and de-fatting of the skin.
Signs and symptoms:	Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
Potential environmental effect :	See section 12.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredients	CAS	Conc
Tetradecanamide, N-(3- dimethyl amine) propyl)-, N-oxide	67806-10-4	0.5 – 1.5%w/w
Ethanol2-(2-(dodecyloxy)ethoxy)-hydrogen sulfate sodium salt	3088-31-1	1 - 5%w/w
Dodecanamide, N-(3- dimethyl amine) propyl)-, N-oxide	61792-31-2	1 - 5%w/w
Alkylaryl sulfonic acid	68584-22-5	5 - 10 %w/w



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SECTION 4 : FIRST AID MEASURES	
Eye contact :	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.
Skin contact:	Flush with cool water. Obtain medical attention if irritation persists.
Ingestion :	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Inhalation :	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Notes for physician :	Treat symptomatically.
General advice :	If you feel unwell, seek medical advice (show the label where possible). Avoid contact with eyes. Keep out of reach of children.

SECTION 5 : FIRE FIGHTING MEASURES	
Fire hazards/conditions of flammability:	Not flammable by WHMIS criteria
Extinguishing media:	Treat for surrounding material.
Protection of firefighters	
Specific hazards arising from the chemical:	Not available.
Protective equipment for firefighters:	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products :	May include and are not limited to: Oxides of carbon.
Exposure data :	Not available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES	
Personal precautions:	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak..
Environmental precautions:	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment:	Stop leak if you can do so without risk. Prevent entry into waterways, Sewers, basements or confined areas.
Methods for cleaning up :	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

SECTION 7 : HANDLING AND STORAGE	
Safe Handling procedures:	Use good industrial hygiene practices in handling this material. Avoid contact with eyes and skin.
Storage requirements :	Keep out of reach of children. Store in a closed container away from incompatible materials.
Storage temperature:	5-30 C. Do not freeze. Avoid high temperature.



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SECTION 8 : EXPOSITION CONTROL/PERSONAL PROTECTION			
Exposition limit values	ACGIH TLV		
Ingredients		CAS	TWA
Tetradecanamide, N-(3- dimethyl amine) propyl)-, N-oxide		67806-10-4	Not available
Ethanol2-(2-(dodecyloxy)ethoxy)-hydrogen sulfate sodium salt		3088-31-1	Not available
Dodecanamide, N-(3- dimethyl amine) propyl)-, N-oxide		61792-31-2	Not available
Alkylaryl sulfonic acid		68584-22-5	Not available
Engineering controls:	Not normally required.		
Eye/Face protection:	Safety glasses or a facial screen if eye contact is possible.		
Skin and body protection:	If there is constant skin contact, rubber gloves are recommended. Confirm with a reputable supplier first.		
Respiratory protection:	Not normally required.		
General hygiene considerations:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.		

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES			
Physical state	Liquid	Appearance	Visquous colored liquid
Odour	Fragrant various	Odor threshold	Not available
pH	7 - 8	Water Solubility	Completely miscible
Boiling point	Not available	Evaporation Rate	Not available
Freezing point	Not available	Viscosity	>600cPs (@30-40 °C)
Vapour Pressure mmHg @ 20°C/68 °F)	Not available	Auto-ignition temperature	Not available
Flash point / Poor point	Not available	Flammability limits in air, lower %vol	Not available
Density	1.01 – 1.05	Flammability limits in air, upper %vol	Not available
Repartition Coefficient water/oil	Not available	Vapour density	Not available

SECTION 10 : STABILITY AND REACTIVITY	
Reactivity:	None known.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Do not mix with other chemicals.
Incompatible materials:	Oxidizers.
Hazardous decomposition products:	May include and are not limited to: Oxides of carbon.



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SECTION 11 : TOXICOLOGICAL INFORMATION			
<u>Ingredients</u>	CAS	LC50(4hr)inh, rat	LD50 (Oral, rat)
Tetradecanamide, N-(3-(dimethyl amine) propyl)-, N-oxide	67806-10-4	Not available	Not available
Ethanol2-(2-(dodecyloxy)ethoxy)-hydrogen sulfate sodium salt	3088-31-1	Not available	Not available
Dodecanamide, N-(3-(dimethyl amine) propyl)-, N-oxide	61792-31-2	Not available	Not available
Alkylaryl sulfonic acid	68584-22-5	Not available	530 mg/kg
Effects of acute exposure:			
Eye :	May cause irritation.		
Skin :	May cause irritation.		
Inhalation:	May cause respiratory tract irritation.		
Ingestion :	May cause stomach distress, nausea or vomiting.		
Sensitization to material :	Non-hazardous by WHMIS criteria.		
Chronic effects:	Non-hazardous by WHMIS criteria.		
Carcinogenicity :	Non-hazardous by WHMIS criteria.		
Reproductive effects:	Non-hazardous by WHMIS criteria.		
Teratogenicity :	Non-hazardous by WHMIS criteria.		
Mutagenicity:	Non-hazardous by WHMIS criteria.		
Synergistic Products :	Not available.		

SECTION 12 : ECOLOGICAL INFORMATION		
Eco toxicity :	CAS	Ecotoxicity - Freshwater Fish - Acute Toxicity Data
Sulfonic alkyl benzène acid	68584-22-5	96 Hr LC50 Oncorhynchus mykiss: 3 mg/L [static]
Eco toxicity :	CAS	Ecotoxicity - Water Flea - Acute Toxicity Data
Sulfonic alkyl benzène acid	111-42-2	48 Hr EC50 Daphnia magna: 2.9 mg/L
Persistence and degradability:	Not available.	
Bioaccumulation Potential:	Not available.	
Mobility in environmental media :	Not available.	
Environmental effects:	Not available.	
Aquatic toxicity:	Not available.	
Partition coefficient	Not available.	
Chemical fate information :	Not available.	
Other adverse effects ;	Not available.	

SECTION 13 : DISPOSAL CONSIDERATIONS	
Disposal instructions:	Dispose in accordance with all applicable federal, state, provincial and local regulations.
Waste from residues / Unused products:	Not available.
Contaminated packaging	Not available.



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SECTION 14 : TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG - Canada) :
Not regulated as dangerous goods.

SECTION 15 : REGULATORY INFORMATION

Canadian federal regulations :	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.	
WHMIS classification :	Class D 2B	
WHMIS status:	Controlled	
WHMIS labeling:		
Inventory Status		
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)		

SECTION 16 : OTHER INFORMATION

HMIS Rating; Chronic hazard: 0- Minimal 1-Slight 2-Moderate 3-Serious

Health : 1 Flammability : 0 Reactivity : 0

Disclaimer of liability:	The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Lavo Inc. expressly disclaims all expressed or implied warranties for the accuracy or completeness of the data contained herein and assumes no responsibilities for any involved damages by above data. Product's users have to do their own tests to establish the applicability of the information for a specific use of the product. MSDS data does not apply to use with any other product or in any other process.
Other information :	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document. References: MSDS of suppliers SIMDUT regulation
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