



LAVO  
11900 Boul. Saint-Jean Baptiste  
Montréal, QC, H1C 2J3  
CANADA  
1-800-361-6898

**PRODUCT: OLD DUTCH, Dishwashing liquid, Green Apple**

**CODE: ODF20-0010**

### SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:..... OLD DUTCH, Dishwashing liquid, Green Apple  
 PRODUCT CODE(S)..... OD F20-0010  
 RECOMMENDED USE:..... Dishwashing liquid detergent. Domestic use.  
 CHEMICAL FAMILY..... Mixture.  
 MANUFACTURING NAME AND ADDRESSLAVO  
 11900 Boul. Saint-Jean-Baptiste  
 Montréal, QC, H1C 2J3  
 CANADA  
 1-800-361-6898  
 24 HOUR EMERGENCY UNMBER:..... CANUTEC 24-Hour Number: 613-996-6666.

### SECTION 02: HAZARD IDENTIFICATION

SIGNAL WORD..... WARNING.  
 GHS CLASSIFICATION:..... Eye Irritation Category 3. Skin Corrosion/Irritation Category 3. Acute aquatic toxicity Category 2.  
 HAZARD STATEMENTS..... H320 Causes eye irritation. H316 Causes mild skin irritation. H412 Harmful to aquatic life with long lasting effects. H402 Harmful to aquatic life.  
 PRECAUTIONARY STATEMENTS..... P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P270 Do not eat, drink or smoke when using this product. P264 Wash thoroughly after handling. P301+P310: IN CAS OF SWALLOWED: Call IMMEDIATELY a POISON CENTER or physician. P302+P352 IF ON SKIN: Wash with plenty water. P305+P351+P338: IN CAS OF CONTACT WITH EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P403+P235 Store in a well-ventilated place. Keep cool. P501: Dispose of contents/container to an approved waste disposal plant.

### SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Alkyl benzene sulfonic acid	68584-22-5	2.5-3.5
Sodium laureth sulfate	68585-34-2	2.0-2.5
Triethanolamine	102-71-6	1.0-1.5
Laurylamido propylamide oxide	61792-31-2	0.5-1.0
Diethanolamine	111-42-2	0.1-0.3

### SECTION 04: FIRST AID MEASURES

ROUTES OF EXPOSURE..... Eye, Skin, Ingestion .  
 EYE CONTACT..... Immediately hold eyelids open and flush with water for at least 15 minutes. Check for and remove any contact lenses if easy to do. Call a poison center or physician.  
 SKIN CONTACT..... Wash affected area with large amount of water. Obtains medical attention if irritation develops or persists.  
 INHALATION..... Seek medical attention. if symptoms develop move victim to fresh air.  
 INGESTION..... Call IMMEDIATELY a poison centre or a doctor. Do not induce vomiting or give anything by mouth to an unconscious person.  
 ACUTE SYMPTOMS/EFFECTS  
 Eyes:..... May irritate eyes.  
 Ingestion:..... May cause stomach distress, nausea or vomiting.  
 Inhalation:..... May cause respiratory tract irritation.  
 Skin:..... May irritate skin.  
 DELAYED SYMPTOMS/EFFECTS..... Prolonged or repeated contact may cause drying, cracking and de fatting of the skin.  
 GENERAL ADVICE:..... Consult a physician. Show this safety data sheet to the doctor.

### SECTION 05: FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY..... Non-flammable substance.  
 SUITABLE EXTINGUISHING MEDIA..... Use fire-extinguishing media appropriate for surrounding materials.  
 UNSUITABLE EXTINGUISHING MEDIA.. None known.

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**SECTION 05: FIRE FIGHTING MEASURES**

SPECIAL PROTECTIVE EQUIPMENT .... Firefighter should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode.

AND PRECAUTIONS FOR FIREFIGHTERS

HAZARDOUS COMBUSTION PRODUCTS May include and are not limited to: Oxides of carbon.

EXPLOSION HAZARDS:

Sensitivity to static discharge:..... No information available.

Sensitivity to mechanical impact: No information available.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS:..... Restrict access to area until completion of clean up. Evacuate personnel to safe areas. Ensure clean up is conducted by trained personnel only. Do not touch and walk through spilled material. All persons dealing with clean up should wear the appropriate protective equipment including self contained breathing apparatus. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personnel protective equipment. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS:..... Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Prevent further leakage or spillage if safe to do.

METHODS AND MATERIALS FOR ..... Stop leak if you can do so without risk. Contain and absorb spilled liquid with non combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal. Flush with water. Do not flush into surface water or sanitary sewer system. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required. Small spills may be absorbed with non-reactive absorbent and placed in suitable covered, labeled containers. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

**SECTION 07: HANDLING AND STORAGE**

HANDLING PROCEDURES..... Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Keep container tightly closed.

STORAGE NEEDS..... Keep out of reach of children. Keep container tightly closed. Store in a cool, dry, well-ventilated area.

STORAGE TEMPERATURE..... 5 - 30°C. Do not freeze.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Alkyl benzene sulfonic acid	No information available	No information available	No information available	No information available	No information available	No information available
Sodium laureth sulfate	No information available	No information available	No information available	No information available	No information available	No information available
Triethanolamine	No information available	No information available	No information available	No information available	No information available	No information available
Laurylamido propylamide oxide	No information available	No information available	No information available	No information available	No information available	No information available
Diethanolamine	No information available	No information available	No information available	No information available	No information available	No information available
ACGIH TLV:.....	American Conference of Governmental Industrial Hygienists - Threshold Limit Value.					
OSHA PEL:.....	Occupational Safety and Health Administration - Permissible Exposure Limits.					
NIOSH IDLH:.....	Immediately Dangerous to Life or Health.					
ENGINEERING CONTROLS:.....	General ventilation.					
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.					
PERSONAL PROTECTION EQUIPMENT:	As required by employer. Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workspace.					
Eye / Face protection:.....	Wear safety glasses with side shields or goggles.					
Hand protection:.....	Wear protective gloves. Gloves must be inspected prior to use.					
Respiratory protection:.....	No special respiratory equipment required.					

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**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE..... Viscous liquid.  
 COLOUR..... Colored mixture.  
 ODOUR..... Odourless to perfumed.  
 ODOUR THRESHOLD (ppm)..... No information available.  
 pH..... 7.0-8.0.  
 DENSITY..... 1.01-1.05.  
 % SOLID..... 9.0-11.0.  
 FREEZING POINT ( °C)..... No information available.  
 BOILING POINT (°C)..... No information available.  
 FLASH POINT (°C), Method..... No information available.  
 EVAPORATION RATE..... No information available.  
 VAPOUR PRESSURE (mm Hg)..... No information available.  
 VAPOUR DENSITY (AIR=1)..... No information available.  
 SOLUBILITY IN WATER (% W/W)..... Soluble in water.  
 COEFFICIENT OF WATER/OIL ..... No information available.  
 DISTRIBUTION  
 AUTO IGNITION TEMPERATURE (°C).... No information available.  
 DECOMPOSITION TEMPERATURE..... No information available.  
 REFRACTIVE INDEX..... 9.0-11.0.  
 VISCOSITY..... >600 cps.

**SECTION 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY..... Stable under the recommended storage and handling conditions prescribed.  
 REACTIVITY..... None known.  
 HAZARDOUS POLYMERIZATION..... Hazardous polymerization cannot occur.  
 CONDITIONS TO AVOID..... Do not mix with other chemicals.  
 INCOMPATIBILITY..... Oxidizers;  
 HAZARDOUS PRODUCTS OF ..... May include and are not limited to: Oxides of carbon.  
 DECOMPOSITION

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Alkyl benzene sulfonic acid	No information available	Oral Rat 500-2000mg/kg;Dermal Rabbit >2000mg/kg;
Sodium laureth sulfate	No information available	Oral Rat >2000mg/kg;Dermal Rabbit >2000mg/kg;
Triethanolamine	No information available	Oral 2200mg/kg Rat;Dermal18000mg/kg Rabbit
Laurylamido propylamide oxide	No information available	Oral Rat 500mg/kg;Dermal Rabbit 2174mg/kg
Diethanolamine	No information available	Oral Rat 680mg/kg; Dermal Rabbit 8400mg/kg;
ROUTE OF EXPOSURE.....	Eyes, skin, respiratory system and digestive system.	
POTENTIAL EFFECTS ON HUMANS		
Eye contact.....	May cause eye irritation.	
Skin contact.....	May cause mild irritation.	
Inhalation.....	May cause respiratory irritation.	
Ingestion.....	May cause stomach distress, nausea or vomiting.	
CHRONIC EFFECTS ON HUMANS.....	Non hazardous.	
SENSITIZATION.....	Non hazardous.	
TARGET ORGANS.....	No information available.	
CARCINOGENICITY.....	No evidence of carcinogenic effects.	
Carcinogen classification code		
American Conference of Governmental ...	A4 - Not classifiable as a human carcinogen.	
Industrial Hygienists, ACGIH		
International Agency for Research on .....	3 - Group 3:Not classifiable as to its carcinogenicity to humans.	
Cancer, IARC		
MUTAGENICITY.....	No information available.	
REPRODUCTIVE EFFECTS.....	No information available.	
TERATOGENICITY.....	No information available.	
SPECIFIC TARGET ORGANS TOXICITY -	No information available.	
Single exposure		
SPECIFIC TARGET ORGANS TOXICITY -	No information available.	
Repeated exposure		
ASPIRATION HAZARD.....	No information available.	
SIGNS AND SYMPTOMS OF EXPOSURE	Prolonged or repeated contact may cause drying, cracking and defatting of the skin.	
SYNERGISTIC MATERIALS.....	No information available.	

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**SECTION 12: ECOLOGICAL INFORMATION**

MOBILITY IN SOIL..... No information available.  
 BIODEGRADABILITY..... Expected to be biodegradable.  
 BIOACCUMULATION..... No information available.  
 OTHER ADVERSE EFFECTS

**SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... The disposal of the product must be made in an approved sanitary landfill or in a foundry in accordance with state, provincial and/or federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

Domestic Substances list, DSL..... All components of this product are either on the Domestic Substances List, the Non Domestic Substances List or exempt.  
 TDG CLASSIFICATION..... Not regulated.  
 DOT US: Department of Transport US..... Not regulated.  
 IMDG: International Maritime Dangerous Goods . Not regulated.  
 IATA: International Air Transportation Association ..... Not regulated.

**SECTION 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION..... This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this document contains all the information required by the Controlled Products Regulations.

**SECTION 16: OTHER INFORMATION**

DVE..... F0020-0009/0010/0014/.  
 DISCLAIMER:..... The information in the 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.  
 PREPARED BY: ..... Regulatory Affairs  
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