



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

PRODUCT: HERTEL PRO Disinfectant All Purpose

CODE: HEF10-099PRO

SECTION 01: IDENTIFICATION

PRODUCT NAME:..... HERTEL PRO Disinfectant All Purpose
 PRODUCT CODE(S)..... HE F10-099PRO
 RECOMMENDED USE:..... Industrial use. Disinfectant of hard surfaces non porous.
 MANUFACTURING NAME AND ADDRESS LAVO
 11900 Boul. Saint-Jean-Baptiste
 Montréal, QC, H1C 2J3
 CANADA
 1-800-361-6898
 24 HOUR EMERGENCY NUMBER:..... CANUTEC 24-Hour Number: 613-996-6666.

SECTION 02: HAZARD IDENTIFICATION



SIGNAL WORD..... WARNING.
 GHS CLASSIFICATION:..... Skin Corrosion/Irritation Category 2. Eye Irritation Category 2. Acute aquatic toxicity Category 2.
 HAZARD STATEMENTS..... H320 Causes eye irritation. H302 Harmful if swallowed. H315 Causes skin irritation. H402 Harmful to aquatic life.
 PRECAUTIONARY STATEMENTS..... P273 Avoid release to the environment. 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. P330 Rinse mouth. P331: Do not induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of water. P351 Rinse cautiously with water for several minutes. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. 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. P337+P313 If eye irritation persists: Get medical advice/attention. P501: Dispose of contents/container to an approved waste disposal plant.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Ethoxylated C12-16 Alcohols	68551-12-2	1.0-5.0
Dipropylene Glycol Methyl Ether	34590-94-8	1.0-5.0
Sodium Metasilicate	6834-92-0	0.5-1.5
Dimethylbenzyl ammonium chloride	68424-85-1	0.1-0.5
Perfume		<0.5

SECTION 04: FIRST-AID MEASURES

ROUTES OF EXPOSURE..... Eye, Skin, Ingestion and Inhalation.
 INHALATION..... Remove victim to fresh air. If not breathing give artificial respiration or oxygen by trained personnel. Get immediate medical attention. Call a poison center or physician.
 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. Consult a physician.
 SKIN CONTACT..... Wash affected area immediately with large amounts of soap and water. Remove contaminated clothing and wash before reuse. Consult a physician.
 INGESTION..... Call IMMEDIATELY a poison centre or a doctor. Do not induce vomiting or give anything by mouth to an unconscious person. Rinse out mouth with water.
 ACUTE SYMPTOMS/EFFECTS
 Eyes:..... Causes eye irritation.

PRODUCT: HERTEL PRO Disinfectant All Purpose**CODE: HEF10-099PRO****SECTION 04: FIRST-AID MEASURES**

Ingestion:..... May cause stomach distress, nausea or vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Call immediately a poison centre or a doctor.

Skin:..... Causes skin irritation.

Inhalation:..... May cause respiratory tract irritation.

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. Non combustible substance.

SUITABLE EXTINGUISHING MEDIA:..... Use fire-extinguishing media appropriate for surrounding materials. Use Water spray, Alcohol-resistant foam, Dry chemical or Carbon dioxide.

UNSUITABLE EXTINGUISHING MEDIA.. Do not use dry chemical extinguishing agents that contain ammonium compounds.

SPECIAL PROTECTIVE EQUIPMENT Firefighter should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Use water to cool fire exposed containers.

AND PRECAUTIONS FOR HAZARDOUS COMBUSTION PRODUCTS May include and are not limited to: Chlorine; Hydrogen chloride gas; Oxygen; Sodium dioxides.

EXPLOSION HAZARDS:

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

Sensitivity to mechanical impact: No information available.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONNAL 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. Avoid breathing vapours, mist or gas. 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 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.

CONTAINMENT AND CLEANING

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. Use in well ventilated areas. Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Wash thoroughly after handling. Keep container tightly closed.

STORAGE NEEDS:..... Keep out of reach of children. Protect from sunlight. Keep container tightly closed. Store in a cool, dry and well ventilated area.

STORAGE TEMPERATURE:..... <30°C.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Ethoxylated C12-16 Alcohols	No information available	No information available	No information available	No information available	No information available	No information available
Dipropylene Glycol Methyl Ether	100ppm	150ppm	100ppm	150ppm	No information available	No information available
Sodium Metasilicate	No information available	No information available	No information available	No information available	No information available	No information available
Dimethylbenzyl ammonium chloride	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:..... Use under well-ventilated conditions or with respiratory protection.

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GENERAL HYGIENE CONSIDERATIONS: Avoid breathing vapor or mist. Avoid contact with skin, eyes and clothing. Remove soiled clothing and wash it thoroughly before reuse. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Do not eat, drink, smoke or use cosmetics while working with this 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:..... Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s). Use a full face respirator with multi-purpose combination or Wear self contained breathing apparatus.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE..... Clear liquid. Translucent.
 COLOUR..... Colourless to light yellow.
 ODOUR..... Perfumed .
 ODOUR THRESHOLD (ppm)..... No information available.
 pH..... 12.0-13.0.
 DENSITY..... 1.00-1.02.
 % SOLID..... 8.0-10.0.
 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

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY..... Stable under the recommended storage and handling conditions prescribed.
 REACTIVITY..... This product may react with strong acids.
 HAZARDOUS POLYMERIZATION..... Hazardous polymerization cannot occur.
 CONDITIONS TO AVOID..... Do not mix with incompatible materials.
 INCOMPATIBILITY..... Acids.
 HAZARDOUS PRODUCTS OF May include and are not limited to: Oxides of carbon.
 DECOMPOSITION

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Ethoxylated C12-16 Alcohols	Inh Rat >1600mg/m ³ ;	Oral Rat >1376mg/kg; Dermal Rabbit >3000mg/kg;
Dipropylene Glycol Methyl Ether	Inh Rat 4hrs 661ppm;	Oral Rat 5230mg/kg; Dermal Rabbit 9500mg/kg;
Sodium Metasilicate	No information available	Oral Rat 1152 mg/kg;
Dimethylbenzyl ammonium chloride	No information available	Oral Rat 50-500mg/kg; Dermal Rat >2000mg/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 skin irritation.	
Inhalation.....	May cause respiratory irritation.	
Ingestion.....	May cause stomach distress, nausea or vomiting.	
CHRONIC EFFECTS ON HUMANS.....	Safe handling of this material on a long term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures.	
SENSITIZATION.....	No information available.	
This mixture may contain:.....	Perfume <0.5%;	
TARGET ORGANS.....	No information available.	
CARCINOGENICITY.....	No evidence of carcinogenic effects.	
Carcinogen classification code		
American Conference of Governmental ... Industrial Hygienists, ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	

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SECTION 11: TOXICOLOGICAL INFORMATION

International Agency for Research on Cancer, IARC 3 - Group 3: Not classifiable as to its carcinogenicity to humans.

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 Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath, Spasm, Inflammation and Edema of the Larynx, Inflammation and Edema of the bronchi and Pneumonyary edema.

SYNERGISTIC MATERIALS..... No information available.

SECTION 12: ECOLOGICAL INFORMATION

MOBILITY IN SOIL..... No information available.

BIODEGRADABILITY..... No information available.

BIOACCUMULATION..... No information available.

OTHER ADVERSE EFFECTS..... Toxic to aquatic life with long lasting 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. Class E: Corrosive Material. Class D-2B: Toxic material Causing other toxic effects.

SECTION 16: OTHER INFORMATION

DPro..... F10-0074/.

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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