



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

PRODUCT: LAVO PRO 6 Bleach DIN02358107 & CFIA. NSF MUL186mg/L.

CODE: LVLAF00-0145

SECTION 01: IDENTIFICATION

Product identification..... LAVO PRO 6 Bleach DIN02358107 & CFIA. NSF MUL186mg/L.
Product code..... LVLA F00-0145
Recommended use..... Chlorine based bleaching agents. Laundry and Household bleach. Hard surfaces disinfectant: household, hospitals, dental clinics, medical clinics and nursing homes use.
Manufacturer by..... LAVO
11900 Boul. Saint-Jean-Baptiste
Montréal, QC, H1C 2J3
CANADA
1-800-361-6898
Business hours..... 8:00AM - 4:30PM.
24 HOUR EMERGENCY NUMBER:..... CANUTEC 24-Hour Number: 613-996-6666.

SECTION 02: HAZARD IDENTIFICATION



Signal word..... DANGER.
LABEL ELEMENTS:
Hazard classification..... Skin Corrosion/Irritation Category 2. Serious Eye Damage/ Eye Irritation Category 1. Acute aquatic toxicity Category 3.
Hazard statements..... H315 Causes skin irritation. H318 Causes serious eye damage. H402 Harmful to aquatic life.
Precautionary statements..... P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty water. P332+P313 If skin irritation occurs: Get medical advice/attention. 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/physician. P362+P364 Take off contaminated clothing and wash before reuse. P501 Dispose of contents/container to an approved waste disposal plant. Surfaces subject to direct contact with food are thoroughly rinsed with potable water after treatment with this product.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Sodium Hypochlorite	7681-52-9	5.0-8.0
Sodium Hydroxide	1310-73-2	<0.7

SECTION 04: FIRST-AID MEASURES

Inhalation..... Remove victim to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide 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..... Immediately flush skin with plenty of water for 15 minutes. 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
Inhalation:..... Inhalation of high concentrations of fumes or mists may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract.
Skin:..... Causes skin irritation.
Eyes:..... Causes serious eye irritation.
Ingestion:..... May be harmful if swallowed.

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SECTION 04: FIRST-AID MEASURES

Delayed symptoms/Effects..... Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
 General advice..... Consult a physician. Show this safety data sheet to the doctor.

SECTION 05: FIRE-FIGHTING MEASURES

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 actions for fire-fighters. 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.
 Specific hazards arising from the chemical May include and are not limited to: Chlorine; Hydrogen chloride gas; Oxygen; Sodium dioxides.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personnel precautions..... All persons dealing with clean up should wear the appropriate protective equipment including self contained breathing apparatus.
 Protective equipment..... Use personnel protective equipment.
 Emergency procedures..... 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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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 containment and cleaning 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

Precaution for safe handling..... Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep container tightly closed. Use in well ventilated areas.
 Condition for safe storage..... 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
Sodium Hypochlorite	Not available	Ceiling: 2mg/m3	2mg/m3	Not available		Not available
Sodium Hydroxide	Not available	2mg/m3	2mg/m3	Not available		Not 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.					
Appropriate engineering controls.....	Use under well-ventilated conditions or with respiratory protection. General ventilation. Eye wash station. Showers.					
Personnel protection equipment (PPE).....	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.					
Skin 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.					

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

General hygiene considerations..... Handle in accordance with good industrial hygiene and safety practice. 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.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, physical state..... Clear liquid. Translucent.
 Colour..... Yellow to greenish.
 Odour..... Chlorine odor.
 Melting point / Freezing point (°C)..... Not available.
 Boiling point (°C)..... 96 to 120°C.
 Flammability..... Not applicable.
 Upper/Lower Flammability or explosive ... Not applicable.
 limits
 Flash point (°C)..... Not applicable. Product does not sustain combustion.
 Auto ignition temperature (°C)..... Not applicable.
 Decomposition temperature..... Not available.
 pH..... 11.5-13.5.
 Viscosity..... Not available.
 Solubility in water (%w/w)..... Soluble in water.
 Partage coefficient n-octanol/water (log)... Not available.
 Vapour pressure (mmHg)..... < 2.3 kPa (17.5 mm Hg @ 20°C).
 Density..... 1.09-1.15 g/ml.
 Relative Vapour Density (AIR=1)..... Heavier than air.
 Refractive Index..... 13-15.
 VOC %..... Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity..... React vigorously with acids. Reacts with amines and ammonia to form explosively unstable compounds. May develop chlorine if mixed with acidic solutions. Contact with some reactive metals may produce flammable hydrogen gas. Corrosive to metals.
 Chemical stability..... Stable under the recommended storage and handling conditions prescribed.
 Possibility of hazardous reactions..... Hazardous polymerization cannot occur.
 Conditions to avoid..... Avoid heat and open flame. Exposure to sunlight. Do not mix with other chemicals.
 Incompatible materials..... Acids. Ammonia.
 Hazardous decomposition products..... May include and are not limited to: Hydrogen chloride, Chlorine gas, Sodium dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Sodium Hypochlorite	Inhalation Rat >10.5mg/kg;	Oral Rat: 8200mg/kg; Oral Mice: 5800mg/kg; Dermal Rat:>2000 mg/kg; Dermal Rabbit >10000mg/kg;
Sodium Hydroxide	Not available	Oral Rat 300-500mg/kg;Dermal Rabbit >2000mg/kg;
Acute toxicity		
Skin corrosion/irritation.....	May cause skin irritation.	
Serious eye damage/Irritation....	May cause eye irritation.	
Respiratory or skin Sensitivation.	May cause respiratory irritation.	
Sensitization.....	Not available.	
Mutagenicity.....	Not available.	
Carcinogenicity.....	No evidence of carcinogenic effects.	
Teratogenicity.....	Not available.	
Reproductive toxicity.....	Not available.	
Specific target organs toxicity - Single	Not available.	
exposure		
Specific target organs toxicity - Repeated	Not available.	
exposure		
Aspiration hazard.....	Not available.	
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. Prolonged or repeated skin contact can result in defatting and drying of the skin. Maybe absorbed through intact skin.	
Symptoms related to the physical, chemical and toxicological characteristics	Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath, Spasm, Inflammation and Edema of the Larynx, Inflammation and Edema of the bronchi and Pneumony edema.	

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity data, Sodium Hypochlorite:..... Acute 96Hrs LC50 Rainbow trout: 0.030 - 0.070 mg/L.
 Acute 48Hrs LC50 Daphnia magna:0.032 - 0.036 mg/L.
 Ecotoxicity data, Sodium Hydroxide:..... Acute 96Hrs LC50 fish Guppy Poecilia reticulata:196 mg/L.
 Chronic 96Hrs NOEC fish Guppy Poecilia reticulata:56 mg/L.
 Persistence and degradability..... Not available.
 Bioaccumulation potency..... Not available.
 Mobility in soil..... Not available.
 Other adverse effects..... Prevent run-off to sewers, streams or other bodies of water.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods..... Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Observe all local, provincial/state and federal environmental regulations.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... Class 8 PG III UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, n.o.s. (Sodium hypochlorite). Limited quantity exception per TDG Regulations Part 1.17(2) -Containers not more than 5L.
 DOT US: Department of Transport US..... Class 8 PG III UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, n.o.s. (Sodium hypochlorite). Limited quantity exception per TDG Regulations Part 1.17(2) -Containers not more than 5L.
 IMDG: International Maritime Dangerous Goods . Class 8 PG III UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, n.o.s. (Sodium hypochlorite). UN3082 Environmentally hazardous substance liquid, n.o.s. (Sodium Hypochlorite), Class 9, PG III .
 IATA: International Air Transportation Association Class 8 PG III UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, n.o.s. (Sodium hypochlorite).

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

B5 DIN ACIA..... F0000-0131/0132/0145/0156/0180/.
 Disclaimer:..... The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. LAVO 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. Products users have to do their own tests to establish the applicability of the information for a specific use of the product. SDS data does not apply to use with any other product or in any other process.
 Prepared by: Regulatory Affairs
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