

11900 Boul. Saint-Jean Baptiste Montréal, QC, H!C 2J3 CANADA 1-800-361-6898

LAVO 12 Sodium Hypochlorite, PCP12419, DIN02246212, CFIA PRODUCT: **CODE: LVLAF07-0165** 

#### SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:..... LAVO 12 Sodium Hypochlorite, PCP12419, DIN02246212, CFIA

PRODUCT CODE(S)..... LVLA F07-0165

CHEMICAL FAMILY ......RECOMMENDED USE:..... CHEMICAL FAMILY

Sodium Hypochlorite solution 15% - 20%. Technical Grade. NSF STD60-MUL97mg/L. Alkaline Hypochlorite Solution is used as an oxidizing and bleaching agent. . For industrial, institutional, swimming pool uses. Chlorinating liquid for

controlling bacteria and algae in swimming pool waters. Use in food processing plants. Swimming pool, Shock & regular treatment. Laundry and Household bleach. Use on the

MANUFACTURING NAME AND ADDRESSLAVO

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..... DANGER. GHS CLASSIFICATION:.... Serious Eye Damage/ Eye Irritation Category 1. Skin corrosion Category 1. Specific Target Organ Toxicity Single Category 3. Respiratory tract irritation Category 1.

H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H411 HAZARD STATEMENTS.....

Toxic to aquatic life with long lasting effects.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after PRECAUTIONARY STATEMENTS..... handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear

protective gloves/protective clothing/eye protection/face protection. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. P310 Immediately call a POISON CENTER or doctor/physician.

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.

P501: Dispose of contents/container to an approved waste disposal plant.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS				
HAZARDOUS INGREDIENTS	CAS#	WT. %		
Sodium Hypochlorite	7681-52-9	7.0-13.0		
Sodium Hydroxide	1310-73-2	0.5-1.5		

#### **SECTION 04: FIRST AID MEASURES**

GENERAL ADVICE:.. Consult a physician. Show this safey data sheet to the doctor.

ROUTES OF EXPOSURE..... Eye, Skin, Ingestion and Inhalation.

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.

Immediately hold eyelids open and flush with water for at least 15 minutes. Check for and EYE CONTACT..... remove any contact lenses if easy to do. Consult a physician.

Immediately flush skin with plenty of water for 15 minutes. Remove contaminated clothing SKIN CONTACT..... 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

Causes eye burns. Causes eye irritation. Eyes:.....



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# **SECTION 04: FIRST AID MEASURES**

May cause severe irritation damage in the mouth, throat and stomach. Symptoms may Ingestion:.... include abdominal pain, vomiting, burns, perforations, bleeding and eventually death. Causes severe burns. Causes skin irritation. Direct skin contact may cause skin burns, Skin:.... deep ulcerations and possibly permanent scaring. Inhalation of high concentrations of fumes or mists may cause severe irritation and Inhalation:.... corrosive damage to the nose, throat and upper respiratory tract. DELAYED SYMPTOMS/EFFECTS..... Prolonged or repeated contact may cause drying, cracking and de fatting of the skin.

#### **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. Do not use dry chemical extinguishing agents that contain ammonium compounds.

UNSUITABLE EXTINGUISHING MEDIA.. SPECIAL PROTECTIVE EQUIPMENT .... AND PRECAUTIONS FOR **FIREFIGHTERS** 

Firefighter should wear proper protective equipment and seft 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.

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

**EXPLOSION HAZARDS:** 

Sensitivity to static discharge:..... No data available. Sensitivity to mechanical impact: No data 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 PRECAUTONS:.....

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.

CONTAINMENT AND CLEANING 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.

# **SECTION 07: HANDLING AND STORAGE**

Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke HANDLING PROCEDURES.....

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.

Keep out of reach of children. Protect from sunlight. Keep container tightly closed. Store in STORAGE NEEDS.....

a cool, dry and well ventilated area. Do not store near acids.

STORAGE TEMPERATURE..... <30°C.

## SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA ACGI	H TLV STEL	OSH. PEL	A PEL STEL	NIOSH REL
Sodium Hypochlorite	Information not available	Ceiling: 2 mg/m3	2 mg/m3	Information not available	Information not available
Sodium Hydroxide	No information available	2 mg/m3	2 mg/m3	No information available	No information available

American Conference of Governmental Industrial Hygienists - Threshold Limit Value. Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV:.....OSHA PEL:.... NIOSH IDLH:.... Immediately Dangerous to Life or Health.

ENGINEERING CONTROLS..... Use under well-ventilated conditions or with respiratory protection.

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.



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# SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONNAL PROTECTION EQUIPMENT:As required by employer. Complete suit protecting agains chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous

substance at the specific workspace.
Wear saftey glasses with side shields or goggles. Eve / Face protection:....

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, pale yellow liquid. Translucent. COLOUR..... Yellow to greenish. ODOUR..... Chlorine odor. ODOUR THRESHOLD (ppm)..... No information available. >12.5. ..... 1.10-1.25 g/mL. DENSITY..... % SOLID..... 7.0-8.0. -30°C to -20°C. 96 to 120°C. Not applicable. Product does not sustain combustion. EVAPORATION RATE.....VAPOUR PRESSURE (mm Hg)..... No information available. < 2.3 kPa (17.5 mm Hg @ 20°C). VAPOUR DENSITY (AIR=1)..... SOLUBILITY IN WATER (% W/W)..... Heavier than air. Soluble in cold water. COEFFICIENT OF WATER\OIL ..... No information available. DISTRIBUTION

**DECOMPOSITION** 

Carcinogen classification code

## **SECTION 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY..... Stable under the recommended storage and handling conditions prescribed. Reacts with other chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other REACTIVITY..... chlorinated compounds. Contact with some reactive metals may produce flammable hydrogen gas. Corrosive to metals. HAZARDOUS POLYMERIZATION..... Hazardous polymerization cannot occur. CONDITIONS TO AVOID..... Avoid heat and open flame. Exposure to sunlight. Do not mix with other chemicals. Toilet bowl cleaners, rust removers, acids, reducing agents, other oxidizing agents and products containing ammonia. Avoid contact with the following materials: Urea, Ammonia, Amides, Amines, Nitrogen containing compounds, Combustible materials, Organic materials, Metals, Reducing materials, Hydrocarbons materials, Alcohols, Ether. Contact with Magnesium, galvanized Zinc, Tin, Chronium, Brass and Bronze generates explosive Hydrogen. HAZARDOUS PRODUCTS OF ..... May include and are not limited to: Hydrogen chloride, Chlorine gas, Sodium dioxide.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50	
Sodium Hypochlorite	Inhalation Rat > 10.5 mg/kg;	Oral Rat: 8200 mg/kg; Oral Mice: 5800 mg/kg; Dermal Rat:>2000 mg/kg; Dermal >10000 mg/kg Rabbit;	
Sodium Hydroxide	No information available	Oral Rat 300-500mg/kg;Dermal Rabbit >2000mg/kg	
ROUTE OF EXPOSURE	Causes eye burns. Causes severe eye damage. Causes skin burns. Causes skin irritation. Harmful if inhaled. May cause respiratory tract irritation or chemical burns.		
CHRONIC EFFECTS ON HUMANS			
SENSITIZATIONTARGET ORGANS	No information available.		
CARCINOGENICITY	skin, eye, lens of cornea and stomach.		

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# **SECTION 11: TOXICOLOGICAL INFORMATION**

Industrial Hygienists, ACGIH

American Conference of Governmental ... A4 - Not classifiable as a human carcinogen (Sodium Hypochlorite). 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.

3 - Group 3:Not classifiable as to its carcinogenicity to humans (Sodium Hypochlorite).

International Agency for Research on .....

Cancer, IARC

MUTAGENICITY. REPRODUCTIVE EFFECTS.....TERATOGENICITY.....

..... No information available. No information available.

SPECIFIC TARGET ORGANS TOXICITY - No information available.

No information available.

Single exposure

Repeated exposure ASPIRATION HAZARD.....

SPECIFIC TARGET ORGANS TOXICITY - No information available.

No information available.

SIGNS AND SYMPTOMS OF EXPOSURE Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent

eye damage including blindness could result. Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath, Spasm, Inflammation and Edema of the Larynx, Inflammation and Edema of the bronchi and Pneumonary edema.

SYNERGISTIC MATERIALS...... No information available.

## **SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY DATA, Sodium .....

Acute 96Hrs LC50 Rainbow trout: 0.030 - 0.070 mg/L Acute 48Hrs LC50 Daphnia magna:0.032 - 0.036 mg/L

Hypochlorite: ECOTOXICITY DATA, Sodium Hydroxide:

Acute 96Hrs LC50 fish Guppy Poecilia reticulata:196 mg/L Chronic 96Hrs NOEC fish Guppy Poecilia reticulata:56 mg/L.

MOBILITY IN SOIL.....BIODEGRADABILITY....

No information available.

No information available. No information available.

BIOACCUMULATION..... OTHER ADVERSE EFFECTS.....

Very 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.....

Limited quantity exception per TDG Regulations Part 1.17(2) -Containers not more than 5L. UN1791 Class 8 Packing group: III HYPOCHLORITE SOLUTION more than 7% available

chlorine.

DOT US: Department of Transport US......

Limited Quantity 5L. UN1791 Class 8 Packing group: III HYPOCHLORITE SOLUTION

more than 7% available chlorine.

IMDG: International Maritime Dangerous. Goods

UN1791 Class:8 PG III Shipping name: HYPOCHLORITE Solution more than 7%

available chlorine.

IATA: International Air Transportation ......

Class8 UN1791 PG III Shipping name: HYPOCHLORITE Solution more than 7%

Association

available chlorine.

#### **SECTION 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION.....

This product has been classified in accordance with the hazard crireria of the Controlled Products Regulations and this document contains all the information required by the Controlled Products Regulations. Class E: Corrosive Material. Class C: Oxidizing Material. Class D1B: Materials Causing Immediate/Serious Effects - Toxic Material. Class D-2B: Toxic material Causing other toxic effects.

## **SECTION 16: OTHER INFORMATION**

POOL NSF .....

F0007-0165.

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

PREPARATION DATE.....

AUG 03/2018

