



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

PRODUCT: LAVO 15% TRADE

CODE: LAVO15%TRADE

## SECTION 01: IDENTIFICATION

Product identification..... LAVO 15% TRADE  
Product code..... LAVO 15% TRADE  
CHEMICAL FAMILY..... Sodium Hypochlorite solution 15% - 20%. Technical Grade.  
Recommended use..... Use for manufacturing, formulating or repackaging.  
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



Hazard classification..... Serious Eye Damage/ Eye Irritation Category 1. Skin corrosion Category 1. Acute aquatic toxicity Category 1. Chronic aquatic toxicity Category 1.  
Signal word..... DANGER.  
LABEL ELEMENTS:  
Hazard statements..... H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.  
Precautionary statements..... P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after 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 person to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN 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

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Sodium Hypochlorite	7681-52-9	15-20
Sodium Hydroxide	1310-73-2	0.5-1.5

## 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..... 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  
Inhalation..... Inhalation of high concentrations of fumes or mists may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract.  
Eyes..... Causes eye burns. Causes eye irritation.  
Ingestion..... May cause severe irritation damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

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**SECTION 04: FIRST-AID MEASURES**

Skin:..... Causes severe burns. Causes skin irritation. Direct skin contact may cause skin burns, deep ulcerations and possibly permanent scarring.  
 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..... 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.  
 Condition for safe storage..... Keep out of reach of children. Protect from sunlight. Keep container tightly closed. Store in a cool, dry, well-ventilated area.  
 Storage temperature..... <30°C.

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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Sodium Hypochlorite	Not available	Ceiling: 2mg/m3	2mg/m3	Not available	Not available	Not available
Sodium Hydroxide	Not available	2mg/m3	2mg/m3	Not available	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.  
 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..... 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.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance, physical state..... Clear. Clear, pale yellow liquid.  
 Colour..... Clear. Yellow to greenish.  
 Odour..... Chlorine odor.  
 Melting point / Freezing point (°C)..... -30°C to -20°C.  
 Boiling point (°C)..... 96 to 120°C.  
 Flammability..... Not applicable.  
 Upper/Lower Flammability or explosive ... Not available.  
 limits  
 Flash point (°C)..... Not applicable. Product does not sustain combustion.  
 Auto ignition temperature (°C)..... Not available.  
 Decomposition temperature..... Not available.  
 pH..... >12.5.  
 Viscosity..... Not applicable.  
 Solubility in water (%w/w)..... Soluble in cold water.  
 Partition coefficient n-octanol/water (log)... Not available.  
 Vapour pressure (mmHg)..... < 2.3 kPa (17.5 mm Hg @ 20°C).  
 Density..... 1.10-1.25 g/mL.  
 Relative Vapour Density (AIR=1)..... Heavier than air.  
 Refractive Index..... 7.0-8.0.  
 VOC %..... Not available.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity..... React vigorously with acids. 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 chlorinated compounds. 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..... 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, Chromium, Brass and Bronze generates explosive Hydrogen.  
 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;
Skin corrosion/irritation.....	Causes skin burns.	
Serious eye damage/Irritation....	Causes eye burns. Causes severe eye damage.	
Respiratory or skin Sensitivation.	Harmful if inhaled. May cause respiratory tract irritation or chemical burns.	
Sensitization.....	No information available to indicate product or components may be respiratory sensitizers. May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals.	
Mutagenicity.....	Not available.	
Reproductive toxicity.....	Not available.	
Teratogenicity.....	Not available.	
Carcinogenicity.....	No evidence of carcinogenic effects.	
Specific target organs toxicity - Single ..... exposure	Not available.	
Specific target organs toxicity - Repeated exposure	Not available.	
Aspiration hazard.....	Not available.	

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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.

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. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

**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.

Mobility in soil..... Not available.

Persistence and degradability..... Not available.

Bioaccumulation potency..... Not available.

Other adverse effects..... Very toxic to aquatic life with long lasting effects.

**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..... UN1791 Class 8 PG II HYPOCHLORITE SOLUTION more than 7% available chlorine.

DOT US: Department of Transport US..... UN1791 Class 8 PG II HYPOCHLORITE SOLUTION more than 7% available chlorine.

IMDG: International Maritime Dangerous Goods . UN1791 Class 8 PG II HYPOCHLORITE SOLUTION more than 7% available chlorine.

IATA: International Air Transportation ..... UN1791 HYPOCHLORITE SOLUTION more than 7% available chlorine, Class 8, PG II . Association

**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.

Pest Management Regulatory Agency, .... Read the approved PCPA label prior to using or handing the pest control product. This chemical is a pest control product registered by Health Canada PMRA and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets, Following is the hazard information required on the pest control product label:. DANGER. Corrosive for eyes and skin.

**SECTION 16: OTHER INFORMATION**

BLEACH 15 20

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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