



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

**PRODUCT: OLD DUTCH Bleach**

**CODE: ODF00-0115**

### SECTION 01: IDENTIFICATION

Product identification..... OLD DUTCH Bleach  
 Product code..... OD F00-0115  
 Recommended use..... Laundry and Household bleach. Domestic 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



Hazard classification..... Skin Corrosion/Irritation Category 2. Eye Irritation Category 2. Harmful if inhaled, category 4.

#### LABEL ELEMENTS:

Signal word..... WARNING.  
 Hazard statements..... H315+H320 Causes skin and eye irritation.  
 Precautionary statements..... P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. 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	1.0-3.0
Sodium Hydroxide	1310-73-2	<0.5

### SECTION 04: FIRST-AID MEASURES

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..... Remove contaminated clothing and wash before reuse. Wash affected area immediately with large amounts of soap and water. 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:..... May irritate eyes.  
 Ingestion:..... May be harmful if swallowed.  
 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.

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**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.

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

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.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personnal precautions..... All persons dealing with clean up should wear the appropriate protective equipment including self contained breathing apparatus.

Protective equipment..... Use personnel protective equipment. Ensure adequate ventilation.

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		PEL	OSHA PEL		REL	NIOSH
			STEL			STEL		
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. Showers. Eyewash station.						
Personnal 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.						
General hygiene considerations.....		Handle in accordance with good industrial hygiene and safety practice. Manipulator. 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 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, physical state.....	Clear liquid. Aqueous solution.
Colour.....	Colourless to light yellow.
Odour.....	Weak. Chlorine odor.
Melting point / Freezing point (°C).....	Not available.
Boiling point (°C).....	Not available.
Flammability.....	Not applicable.
Upper/Lower Flammability or explosive ... limits	Not applicable.
Flash point (°C).....	Not applicable.
Auto ignition temperature (°C).....	Not applicable.
Decomposition temperature.....	Not available.
pH.....	11.5-13.5.
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.....	1.03-1.06g/mL.
Relative Vapour Density (AIR=1).....	Heavier than air.
Refractive Index.....	6.5-8.5.
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.....	Do not mix with other chemicals. Avoid heat and open flame. Exposure to sunlight.
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 Sensitivition.	May cause respiratory irritation. Prolonged or repeated skin contact can result in defatting and drying of the skin. Maybe absorbed through intact skin.	
Sensitization.....	Not available. May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals. No information available to indicate product or components may be respiratory sensitizers	
Mutagenicity.....	Not available.	
Carcinogenicity.....	No evidence of carcinogenic effects.	
Teratogenicity.....	Not available.	
Reproductive toxicity.....	Not available.	
Specific target organs toxicity - Single ..... exposure	Not available.	
Specific target organs toxicity - Repeated exposure	Not available.	
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.	
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 Pneumonyary edema. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.	

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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..... 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..... 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**

BLEACH1..... F00-0115/0117/0167/0168/0190/0191/.  
 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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