

LAVO 11900 Boul. Saint-Jean Baptiste Montréal, QC, H1C 2J3 CANADA

1-800-361-6898

ULTRAQUA Chlorinating Liquid, NSF mul 97 mg/L PRODUCT:

SECTION 01: IDENTIFICATION

ULTRAQUA Chlorinating Liquid, NSF mul 97 mg/L Product identification.....

Product code..... LVUQ F07-0165

Recommended use..... Swimming pool, Shock & regular treatment. Chlorinating liquid for controlling bacteria and

algae in swimming pool waters. Alkaline Hypochlorite Solution is used as an oxidizing and

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bleaching agent. .

Manufacturer by..... **LAVO**

11900 Boul. Saint-Jean-Baptiste

Montréal, QC, H1C 2J3

CANADÁ

1-800-361-6898

8:00AM - 4:30PM. Business hours.....

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. Specific Target Organ Toxicity Single Category 3. Respiratory tract irritation Category 1.

LABEL ELEMENTS:

Signal word..... DANGER.

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 person 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 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	7.0-13.0				
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	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

Causes eve burns. Causes eve irritation. Eyes:.... Ingestion:.... May cause severe irritation damage in the mouth, throat and stomach. Symptoms may

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.



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SECTION 04: FIRST-AID MEASURES

Inhalation of high concentrations of fumes or mists may cause severe irritation and Inhalation:.... corrosive damage to the nose, throat and upper respiratory tract.

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

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.

Do not use dry chemical extinguishing agents that contain ammonium compounds. Unsuitable extinguishing media..... Special protective actions for fire-fighters. Firefighter should wear proper protective equipment and seft contained breathing

apparatus with full face piece operated in positive pressure mode. Move containers from

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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.

EXPLOSION HAZARDS:

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

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personnal precautions..... All persons dealing with clean up should wear the appropriate protective equipment

including self contained breathing apparatus. Use personnel protective equipment.

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.

cleaning

Methods and materials for containment and 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 and well ventilated area. Do not store near acids.

Storage temperature..... <30°C.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV		OSHA PEL			NIOSH
INGREDIENTS	TWA	STEL	PEL	STEL	REL	

Not available Sodium Hypochlorite Not available Ceiling: 2mg/m3 2mg/m3 Not available Sodium Hydroxide 2mg/m3 Not available 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.

Personnal protection equipment (PPE)..... 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.

Eye / Face protection:.... Wear saftey glasses with side shields or goggles.

Wear protective gloves. Gloves must be inspected prior to use. Skin protection:....



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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Use appropriate respiratory protection if there is the potential to exceed the exposure Respiratory protection:.... limit(s). Use a full face respirator with multi-purpose combination or Wear self contained

breathing apparatus. General hygiène 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 09: PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10: STABILITY AND REACTIVITY

Reactivity..... 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. Contact with some reactive metals may produce flammable hydrogen gas. Corrosive to metals. Chemical stability..... Stable under the recommended storage and handling conditions prescribed. Hazardous polymerization cannot occur. Possibility of hazardous reactions..... 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 decomposition products.....

May include and are not limited to: Hydrogen chloride, Chlorine gas, Sodium dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

LC50 **INGREDIENTS** 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: Oral Rat 300-500mg/kg;Dermal Rabbit >2000mg/kg; Sodium Hydroxide Not available Skin corrosion/irritation..... Causes skin burns. Serious eye damage/Irritation.... Causes eye burns. Causes severe eye damage. Respiratory or skin Sensitivition. Harmful if inhaled. May cause respiratory tract irritation or chemical burns. Sensitization..... Not available. Mutagenicity..... Not available. Reproductive toxicity..... Not available. Teratogenicity..... Not available. No evidence of carcinogenic effects. Carcinogenicity..... Contains material which my cause damage to the following organs:upper respiratory tract. Target organs.....

skin, eye, lens of cornea and stomach.



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SECTION 11: TOXICOLOGICAL INFORMATION

Specific target organs toxicity - Single Not available.

exposure

Specific target organs toxicity - Repeated exposure

Not available.

Aspiration hazard.....

Symptoms related to the physical, chemical Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent

Not available.

and toxicological characteristics

eye damage including blindness could result. Burning sensation, Cough, Wheezing,

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Laryngitis, Shortness of breath, Spasm, Inflammation and Edema of the Larynx,

Inflammation and Edema of the bronchi and Pneumonary edema.

Chronic effects on humains..... 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.

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.....Persistance and degradability..... Not available. Not available. Bioaccumulation potency..... Not available.

Very toxic to aquatic life with long lasting effects. Other adverse 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..... Limited quantity exception per TDG Regulations Part 1.17(2) -Containers not more than 5L.

UN1791 Class 8 PG III HYPOCHLORITE SOLUTION more than 7% available chlorine. Limited Quantity 5L. UN1791 Class 8 PG III HYPOCHLORITE SOLUTION more than 7%

DOT US: Department of Transport US...... available chlorine.

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

Goods

Association

IATA: International Air Transportation UN1791 Class 8 PG III HYPOCHLORITE SOLUTION more than 7% 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

F0007-0165 POOL.....

The information in the Safety Data Sheet is offered for your consideration and guidance Disclaimer:.....

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

2021-03-11 Preparation date.....