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SAFETY DATA SHEET

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

ULTRAQUA Chlorinating Liquid, NSF mul 97 mg/L

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

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE(S).....

RECOMMENDED USE:.....

MANUFACTURING NAME AND ADDRESS

1-800-361-6898 24 HOUR EMERGENCY NUMBER:..... CANUTEC 24-Hour Number: 613-996-6666.

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

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### **SECTION 02: HAZARD IDENTIFICATION**

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

LVUQ F07-0165

bleaching agent.

LAVO Inč.

CANADA



SIGNAL WORD	DANGER.
GHS CLASSIFICATION:	Serious Eye Domage/ Eye Irritation Category 1. Skin corrosion Category 1. Specific Target Organ Toxicity Single Category 3. Respiratory tract irritation.
HAZARD STATEMENTS	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H411 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 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 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		
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: ROUTES OF EXPOSURE INHALATION	occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical
EYE CONTACT	attention. Call a poison center or physician. 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	
INGESTION	
ACUTE SYMPTOMS/EFFECTS	
Eyes:	Causes eve burns. Causes eve 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.
Skin:	Causes severe burns. Causes skin irritation. Direct skin contact may cause skin burns, deep ulcerations and possibly permanent scaring.
Inhalation:	Inhalation of high concentrations of fumes or mists may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract.



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### SECTION 04: FIRST AID MEASURES

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 SUITABLE EXTINGUISHING MEDIA UNSUITABLE EXTINGUISHING MEDIA	Non-flammable substance. Non combustible substance. 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.	
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	

### SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES.....

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. 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. <30°C.

#### STORAGE TEMPERATURE.....

STORAGE NEEDS.....

### SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACG TWA	IH TLV STEL	OSHA PEL	A PEL STEL	NIOSH REL
Sodium Hypochlorite	Not established	Ceiling: 2 mg/m3	2 mg/m3	Not established	Not established
Sodium Hydroxide	Not established	2 mg/m3	2 mg/m3	Not established	Not established
OSHA PEL: NIOSH IDLH ENGINEERING CONTRO GENERAL HYGIENE CO PERSONNAL PROTECT Eye / Face proteo Hand protection:.	NSIDERATIONS	American Conference of Occupational Safety an Immediately Dangerous Use under well-ventilate Avoid breathing vapor of clothing and wash it tho eating, drinking, smokin cosmetics while working As required by employe equipment must be sele substance at the specifi Wear saftey glasses wit Wear protective gloves. Use appropriate respiral limit(s). Use a full face r breathing apparatus.	d Health Administrations to Life or Health. and conditions or with re- proughly before reuse. and or use of toilet facility or use of toilet facilit	on - Permissible Exposu espiratory protection. with skin, eyes and cloth Upon completion of wo ties. Do not eat, drink, s concentration and amo gles. ected prior to use.	re Limits. hing. Remove soiled rk, wash hands before moke or use The type of protective unt of the dangerous ed the exposure

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# SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE COLOUR	Clear, pale yellow liquid. Translucent. Yellow to greenish. Chlorine odor. No information available. >12.5. 1.10-1.25 g/mL. 16 to 26. -30°C to -20°C. 96 to 120°C. Not applicable. Product does not sustain combustion. No information available. < 2.3 kPa (17.5 mm Hg @ 20°C). Heavier than air. Soluble in cold water. No information available.
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# SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY REACTIVITY	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 chlorinated compounds. Contact with some reactive metals may produce flammable
	hydrogen gas. Corrosive to metals.
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID	Hazardous polymerization cannot occur.
INCOMPATIBILITY	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 DECOMPOSITION	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: 8,200 mg/kg; Oral Mice: 5800 mg/kg; Dermal Rat:>2000 mg/kg; Dermal Rabbit: >10,000 mg/kg
Sodium Hydroxide	Not established	Oral Rat: 2400mg/kg Dermal Rabbit: >2000mg/kg
Ingestion CHRONIC EFFECTS ON HUMANS SENSITIZATION TARGET ORGANS CARCINOGENICITY Carcinogen classification code ACGIH	<ul> <li>Causes eye burns. Causes severe eye dam</li> <li>Causes skin burns. Causes skin irritation.</li> <li>Harmful if inhaled. May cause respiratory tra and stomach.</li> <li>Safe handling of this material on a long term contact with this material to avoid any effect</li> <li>No information available.</li> <li>Contains material which my cause damage skin, eye, lens of cornea and stomach.</li> <li>No evidence of carcinogenic effects.</li> <li>A4 - Not classifiable as a human carcinoger product present at levels greater than or equ potential carcinogen by ACGIH.</li> </ul>	age. act irritation or chemical burns. tation and corrosive damage to mouth, throat basis should emphasize the prevention of all s from repetitive acute exposures. to the following organs:upper respiratory tract, (Sodium Hypochlorite). No component of this ual to 0.1% is identified as a carcinogen or
IARC International Agency for Research on Cano MUTAGENICITY REPRODUCTIVE EFFECTS TERATOGENICITY. SPECIFIC TARGET ORGANS TOXICITY Single exposure SPECIFIC TARGET ORGANS TOXICITY Repeated exposure ASPIRATION HAZARD	<ul> <li>No information available.</li> </ul>	genicity to humans (Sodium Hypochlorite).

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## SECTION 11: TOXICOLOGICAL INFORMATION

SYNERGISTIC MATERIALS	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. No information available.	
SIGNS AND SYMPTOMS OF EXPOSURE	Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent	

### SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA, Sodium Hypochlorite:	Acute 96Hrs LC50 Rainbow trout: 0.030 - 0.070 mg/L.
ECOTOXICITY DATA, Sodium Hydroxide:	Acute 48Hrs LC50 Daphnia magna:0.032 - 0.036 mg/L. Acute 96Hrs LC50 fish Guppy Poecilia reticulata:196 mg/L Chronic 96Hrs NOEC fish Guppy Poecilia reticulata:56 mg/L.
BIOACCUMULATION	No information available.

### 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
Divulgation list of ingredients TDG CLASSIFICATION	Domestic Substances List or exempt. CAS: 7681-52-9 Sodium Hypochlorite,1%. Limited quantity exception per TDG Regulations Part 1.17(2) -Containers not more than 5L. UN: 1791 Class:8 Packing group: III Shipping name: Hypochlorite solution, n.o.s.
DOT US: Department of Transport US	(Marine pollutant: No Poison Inhalation Hazard: No)
IMDG: International Maritime Dangerous Goods	UN: 1791 Class:8 Packing group: III Shipping name: Sodium Hypochlorite solution, n.o.s. Marine pollutant: No.
IATA: International Air Transportation	UN: 1791 Class:8 Packing group: III Shipping name: Sodium Hypochlorite solution, n.o.s.

## **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 DISCLAIMER	The information in the Material Safety Data Sheet is offered for your consideration and
DISCLAIMER	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	SEP 16/2015

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