0000025

SAFETY DATA SHEET

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

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

SECTION 01: IDENTIFICATION

| ULTRAQUA Chlorinating Liquid, NSF mul 97 mg/L LVUQ F07-0165 Swimming pool, Shock & regular treatment, Chlorinating liquid for controlling bacteria and |
|---|
| 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 bleaching agent. |
| LAVO |
| 11900 Boul. Saint-Jean-Baptiste Montréal, QC, H1C 2J3 |
| CANADA |
| 1-800-361-6898 |
| 8:00AM - 4:30PM. 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 Hazard statements | DANGER. |
| Precautionary statements | Toxic to aquatic life with long lasting effects. 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. 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 Sodium Hydroxide | 7681-52-9 1310-73-2 | 7.0-13.0 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 | |
| Eyes: | Causes eye burns. Causes eye irritation. |
| Ingestion: | May cause severe irritation damage in the mouth, throat and stomach. Symptoms may |
| Skin: | include abdominal pain, vomiting, burns, perforations, bleeding and eventually death. Causes severe burns. Causes skin irritation. Direct skin contact may cause skin burns, deep ulcerations and possibly permanent scaring. |

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SECTION 04: FIRST-AID MEASURES

| Inhalation: | Inhalation of high concentrations of fumes or mists may cause severe irritation and 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. |
| General advice | Consult a physician. Show this safey data sheet to the doctor. |

SECTION 05: FIRE-FIGHTING MEASURES

| Suitable autinguishing madia | Les firs outinguishing modio appropriets for ourrounding materials. Les Mater aprov | |
|---|--|--|
| 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 seft contained breathing | |
| | apparatus with full face piece operated in positive pressure mode. Move containers from | |
| Specific hazards arising from the chemical | fire area if safe to do so. Use water to cool fire exposed containers. May include and are not limited to:. Chlorine: Hydrogen chloride gas: Oxygen: Sodium | |
| Specific flazards ansing from the chemical | dioxides. | |
| EXPLOSION HAZARDS: | | |
| Sensitivity to static discharge: | No data available. | |
| Sensitivity to mechanical impact: | No data available. | |
| SECTION 06: ACCIDENTAL RELEASE MEASURES | | |
| Personnel proceutions | All persons dealing with clean up about wear the appropriate protective againment | |

| 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. |
| 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 |
| Environmental pressutions | 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 | d Stop leak if you can do so without risk. Contain and absorb spilled liquid with non |
| cleaning | combustible, inert absorbent material (e.g. sand), then place absorbent material into a |
| oleaning | 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 | |
| Storage temperature | <30°C. |

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

| INGREDIENTS | TWA | CGIH TLV STEL | PEL | OSHA PEL STEL | NIOSH REL |
|--|---------------|---|--|---|--|
| 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: OSHA PEL: NIOSH IDLH: Personnal protection equipment (PPE) Eye / Face protection: Skin protection: | | Occupational Safety and Immediately Dangerous Use under well-ventilate As required by employer | d Health Administ to Life or Health. d conditions or w r. Complete suit p cted according to c workspace. n side shields or o | ith respiratory protection. protecting agains chemical the concentration and am goggles. | ure Limits. s. The type of protective |

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

| 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 hygiène considerations | 5 1 5 5 |
| | 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 Colour Odour Melting point / Freezing point (°C) Boiling point (°C) Flammability Upper/Lower Flammability or explosive limits | Clear, pale yellow liquid. Translucent. Yellow to greenish. Chlorine odor. -30°C to -20°C. 96 to 120°C. Not applicable. Not applicable. |
|---|---|
| Flash point (°C) Auto ignition temperature (°C) Decomposition temperature | Not applicable. Product does not sustain combustion. Not applicable. >12.5. Not available. Soluble in cold water. Not available. < 2.3 kPa (17.5 mm Hg @ 20°C). Not available. 1.10-1.25 g/mL. Heavier than air. 7.0-8.0. Not available. |

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 |
|---|--|
| Chemical stability | hydrogen gas. Corrosive to metals. Stable under the recommended storage and handling conditions prescribed. |
| Possibility of hazardous reactions | Hazardous polymerization cannot occur. |
| Conditions to avoid Incompatible materials | 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

| 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 Serious eye damage/Irritation Respiratory or skin Sensitivition. Sensitization Mutagenicity Reproductive toxicity Teratogenicity. Carcinogenicity. Target organs. | Causes eye burns. Causes severe eye damag Harmful if inhaled. May cause respiratory trac Not available. Not available. Not available. Not available. Not available. No evidence of carcinogenic effects. | t irritation or chemical burns. |

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Specific target organs toxicity - Single Not available. exposure Specific target organs toxicity - Repeated Not available. exposure Aspiration hazard....... Not available.

Aspiration hazard...... Symptoms related to the physical, chemical Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent and toxicological characteristics eve 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. 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

SECTION 11: TOXICOLOGICAL 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. |
| | Not available. Not available. Not available. 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 | 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. |
|---|---|
| DOT US: Department of Transport US | Limited Quantity 5L. UN1791 Class 8 PG III HYPOCHLORITE SOLUTION more than 7% available chlorine. |
| IMDG: International Maritime Dangerous . Goods | UN1791 Class 8 PG III HYPOCHLORITE SOLUTION more than 7% available chlorine. |
| 00000 | 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

| POOL Disclaimer: | F0007-0165. 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: Preparation date | |

