

## Rubaroc® Softwash

### Section 01 - Chemical and Product and Company Information

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|--------------------|--|
| Product Identifier | Softwash (Sodium Hypochlorite (5-20%))                                   |
| Product Use        | Disinfectant, bleaching agent, source of available chlorine, deodorizer. |
| Supplier Name      | Rubaroc<br>2416 Wyecroft Rd Unit #3<br>Oakville, ON L6L 6M6              |
| Prepared by        | Rubaroc Regulatory Department  |
| Phone:             | 1 (888) 763-7276   |
| Preparation Date   | 08/15/2018   |

24-Hour Emergency Phone  
613-966-6666

### Section 02 - Composition / Information on Ingredients

|                      |   |             |
|----------------------|---|-------------|
| Hazardous Ingredient | Sodium Hypochlorite   | 4.90-16.80% |
| CAS Number           | Sodium Hypochlorite   | 7681-52-9   |
| Synonym(s)           | Industrial bleach, hypo bleach, Javelle water, household bleach |             |

### Section 03 - Hazard Identification

|                           |  |
|---------------------------|--|
| Inhalation                | Irritant of the nose and throat, causing coughing, difficulty breathing, and pulmonary edema.  |
| Skin Contact / Absorption | Causes severe skin irritation with blistering and ulceration.  |
| Eye Contact               | Causes severe irritation of the mucous membranes of the eyes. May cause severe eye damage.   |
| Ingestion                 | Burning of the mouth and throat, abdominal cramps, nausea, vomiting, diarrhea, shock. May lead to convulsions, coma, and even death. |
| Exposure Limits           | ACGIH/TLV-TWA: 0.5ppm (chlorine)   |

### Section 04 - First Aid Measures

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|---------------------------|--|
| Inhalation                | Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention. |
| Skin Contact / Absorption | Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.                                   |
| Eye Contact               | Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention. |

**Ingestion** Do not induce vomiting. If vomiting occurs, lean victim forward to prevent breathing in vomitus. Give large amounts of water. Do not give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

**Additional Information** Not available

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## Section 05 - Fire Fighting

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| <b>Conditions of Flammability</b>       | Non-flammable  |
| <b>Means of Extinction</b>              | Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire.  |
| <b>Flash Point</b>                      | Not applicable   |
| <b>Auto-ignition Temperature</b>        | Not applicable   |
| <b>Upper Flammable Limit</b>            | Not applicable   |
| <b>Lower Flammable Limit</b>            | Not applicable   |
| <b>Hazardous Combustible Products</b>   | Decomposition may produce chlorine gas and/or hydrogen chloride gas.   |
| <b>Special Fire Fighting Procedures</b> | Wear NIOSH-approved self-contained breathing apparatus and protective clothing.  |
| <b>Explosion Hazards</b>                | Pressure buildup in containers could result in an explosion when heated or in contact with acidic fumes. Vigorous reaction with oxidizable organic materials may result in a fire. |

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## Section 06 - Accidental Release Measures

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| <b>Leak / Spill</b>           | Wear appropriate personal protective equipment. Ventilate area. Stop or reduce leak if safe to do so. Restrict access to spill area until clean-up is complete. Prevent material from entering sewers, waterways or confined spaces. Soak up smaller spills with absorbent material that does not react with spilled material. Flush with water to remove any residue.                      |
| <b>Deactivating Materials</b> | Spills can be carefully neutralized first with sodium sulphite, sodium metabisulphite or other dichlorination agent for no chlorine residual, then a pH adjustment may be required with hydrochloric acid until the pH is 7. Note neutralization reactions may produce heat so necessary precautions must be taken. Local regulatory agencies should also be contacted for proper disposal. |

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**Section 07 - Handling and Storage**

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| <b>Handling Procedures</b>  | Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. |
| <b>Storage Requirements</b> | Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from incompatible materials. Venting of containers is advisable.   |

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**Section 08 - Personal Protection and Exposure Controls**

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**Protective Equipment**

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| <b>Eyes.</b>                    | Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.                            |
| <b>Respiratory</b>              | A NIOSH-approved respirator suitable for chlorine is recommended. Where a higher level of protection is required, use a self-contained breathing apparatus.   |
| <b>Gloves</b>                   | Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.   |
| <b>Clothing</b>                 | Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.  |
| <b>Footwear</b>                 | Impervious boots of chemically resistant material should be worn at all times.  |
| <b>Engineering Controls</b>     |   |
| <b>Ventilation Requirements</b> | Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems. |
| <b>Other</b>                    | Emergency shower and eyewash should be in close proximity.  |

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**Section 09 - Physical and Chemical Properties**

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| <b>Physical State</b>             | Liquid  |
| <b>Odor and Appearance</b>        | Strong chlorine odour. Clear, greenish-yellow solution. |
| <b>Odor Threshold</b>             | Not available   |
| <b>Specific Gravity (Water=1)</b> | 1.17 at 20°C (12% trade)                                |

|                                    |                               |
|------------------------------------|-------------------------------|
| Vapor Pressure (mm Hg, 20C)        | 12.1mm Hg at 20°C (12.5 wt %) |
| Vapor Density (Air=1)              | Not available                 |
| Evaporation Rate                   | Not available                 |
| Boiling Point                      | Slowly decomposes above 40°C. |
| Freeze/Melting Point               | ~ -15°C (12% trade)           |
| pH                                 | < 12                          |
| Water/Oil Distribution Coefficient | Not available                 |
| Bulk Density                       | Not available                 |
| % Volatiles by Volume              | Not available                 |
| Solubility in Water                | Complete                      |
| Molecular Formula                  | NaOCl                         |
| Molecular Weight                   | 74.44                         |

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**Section 10 - Stability and Reactivity**


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| Stability                           | Unstable at temperatures above 40°C, in sunlight, and in contact with acid.  |
| Incompatibility                     | Incompatible with strong acids, ammonia, oxidizable materials, nickel, copper, tin, manganese, and iron.   |
| Hazardous Products of Decomposition | Chlorine (by reaction with acids), oxygen (by reaction with nickel, copper, tin, manganese, iron), sodium chloride, sodium chlorate, with increased temperature. |
| Polymerization                      | Will not occur   |

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**Section 11 - Toxicological Information**


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|-----------------------|---|
| Irritancy             | Strong irritant   |
| Sensitization         | Not available   |
| Chronic/Acute Effects | If over-exposed to the solution, there will be constant irritation of the eyes, nose, and throat. |
| Synergistic Materials | Not available   |
| Animal Toxicity Data  | LD <sub>50</sub> (oral, rat): 8910mg/kg (undiluted sodium hypochlorite)                           |
| Carcinogenicity       | Not considered to be carcinogenic (IARC and ACGIH).   |
| Reproductive Toxicity | Not available   |
| Teratogenicity        | Not available   |
| Mutagenicity          | Not available   |

**Section 12 - Ecological Information**

|                       |               |
|-----------------------|---------------|
| Fish Toxicity         | Not available |
| Biodegradability      | Not available |
| Environmental Effects | Not available |

**Section 13 - Disposal Consideration**

|                |   |
|----------------|---|
| Waste Disposal | Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act. |
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**Section 14 - Transportation Information**
**TDG Classification**

|            |  |
|------------|--|
| Class      | 8 (not regulated at solutions below 7%)  |
| Group      | III (not regulated at solutions below 7%)  |
| PIN Number | UN 1791(not regulated at solutions below 7%)   |
| Other      | Secure containers (full and/or empty) with suitable hold down devices during shipment. |

**Section 15 - Regulatory Information**

|                      |   |
|----------------------|---|
| WHMIS Classification | E |
|----------------------|---|

**NOTE:THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

**NSF Certification**

Product is certified under NSF/ANSI Standard 60 for disinfection and oxidation at a maximum dosage for the following:

sodium hypochlorite 5%: 200mg/L  
 sodium hypochlorite 6%: 175mg/L  
 sodium hypochlorite 7%: 161mg/L  
 sodium hypochlorite 8%: 146mg/L  
 sodium hypochlorite 9%: 131mg/L  
 sodium hypochlorite 10%: 116mg/L  
 sodium hypochlorite 11%: 101mg/L  
 sodium hypochlorite 12%: 87mg/L

sodium hypochlorite 13%: 82mg/L  
 sodium hypochlorite 14%: 76mg/L  
 sodium hypochlorite 15%: 70mg/L  
 sodium hypochlorite 16%: 66mg/L  
 sodium hypochlorite 17%: 62mg/L  
 sodium hypochlorite 18%: 58mg/L  
 sodium hypochlorite 19%: 54mg/L  
 sodium hypochlorite 20%: 50mg/L

**Sanitizer Use:** to obtain 10 liters of a 200 mg/L solution as available chlorine, use 16.7 mL of Hypochlor-12 for each 10 liters of clean, potable water.

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#### **Section 16 - Other Information**

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**Note:** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.