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ACG-12
SODIUM HYPOCHLORITE SOLUTION
UN1791

MATERIAL SAFETY DATA SHEET

Date issued : May 2014

EMERGENCY TELEPHONE NUMBER : (613) 996-6666

PRODUCT IDENTIFICATION:

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|-------------------------|------------------------------------------------------|
| Product Name : | Sodium Hypochlorite Solution ACG-12 |
| Chemical Name : | Sodium Hypochlorite |
| Synonyms : | Bleach ; Javel Water |
| Chemical Family : | Chlorite |
| Molecular Formula : | NaOCl |
| Product Use : | Water Purification, Bleaching Agent and Desinfectant |
| Classification SIMDUT : | E-Matière corrosive ; D-2B |

HAZARDOUS INGREDIENTS OF MATERIAL :

| Hazardous Ingredients | %W/V | T.W.A de l'ACGIH | Cas No. |
|-----------------------|---------|------------------|-----------|
| Sodium Hypochlorite | 12 - 14 | 0,5 ppm | 7681-52-9 |

PHYSICAL PROPERTIES :

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| Appearance and Odour : | Clear, greenish-yellow aqueous solution with a strong chlorine odour. |
| Boiling Point (°C) : | Slowly decomposes at 40°C en NaCl et NaClO ₃ |
| Melting/Freezing Point : | -25°C (- 12° F) pour une solution 12% |
| Vapour Pressure : | 17,5 mmHg at 20°C |
| Specific gravity: | ≈ 1,175 g/ml |
| Vapour Density : | No data |
| Evaporation Rate: | No data |
| Solubility: | Miscible in all proportion in water |
| pH : | 11,5 - 13,0 |
| Coefficient of water/oil distribution | No data |
| % Volatile by Volume | No data |

REACTIVITY DATA :

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| Stability: | |
| Under Normal Conditions : | Unstable above 40° C, when exposed to sunlight or in contact with metals. |
| Under Fire Conditions: | Unstable |
| Hazardous Polymerization : | Will not occur |
| Conditions to Avoid: | Temperatures above 40°C |
| Materials to Avoid: | Acids, ammonia, oxidizable materials, urea, nickel, copper, manganese, iron, most metals. |
| Hasardous Decomposition or Combustion Products: | Chlorine gas when in contact with acids ; oxygen when in contact with metals. |

SHIPPING DESCRIPTION : (Under the TDG Act)

For containers of more than 5L, not in limited quantity:

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| Shipping Name: | Hypochlorite Solution |
| Shipping Class/Division: | Corrosive Class 8 |
| Product Identification No(NIP) | UN1791 |
| Packing Group: | III |

FIRE AND EXPLOSION DATA :

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| Flash Point(méthod) : | No-flammable |
| Autoignition Temperature : | Not applicable |
| Flammability Limits in air (%): | UEL : Not applicable LEL : Not applicable |
| Fire Extinguishing Media: | Use appropriate media to extinguish surrounding fire. |
| Fire Fighting Procedures: | Full protection equipment, including a self-contained breathing apparatus, should be worn. Remove storage vessels from fire zone if possible. Use water spray to cool containers to avoid pressure build-up. |

TOXICOLOGICAL AND HEALTH DATA:

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| Recommended Exposure Limit : | ACGIH TLV: 0,5 ppm (as Chlorine) |
| Toxicological Data : | |
| Sodium Hypochlorite: | LD 50 (oral,rat) : 8,910 mg/kg LC 50 (inhalation,rat)> 10500 mg/m ³ /H |
| Carcinogenicity Data: | The ingredients of this product are not listed as carcinogens. |
| Reproductive Effects: | No information is available |
| Teratogenicity Data: | No information is available |
| Synergistic Materials: | No information is available |
| Effect of exposure when: | |
| Inhaled: | * Corrosive! May cause irritation of the nose and upper respiratory tract, headache and coughing. |
| In contact with the skin: | * Corrosive ! Can cause severe local irritation, burns and blisters. Prolonged or repeated contact with diluted solutions may bleach skin or cause dermatitis. |
| In contact with the eyes: | * Very Corrosive ! Can cause irritation and severe damages resulting in blindness. |
| Ingested: | * Corrosive! Burning in mouth and throat. Severe pain, vomiting, diarrhea. |

FIRST AID PROCEDURES WHEN: WARNING CORROSIVE !

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| Inhalation : | Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Obtain medical attention immediately. |
| Skin contact: | Remove contaminated clothing. Flush affected area with water for at least 20 minutes . Obtain medical attention. |
| Eye contact: | Flush immediately eyes with running water for at least 30 minutes holding eyelids open. Obtain medical attention immediately. |
| Ingestion: | If victim is alert and not convulsing, rinse out mouth and give ½ to 1 glass of water to dilute material. Obtain medical attention immediately. |

PREVENTIVE MEASURES :

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| Engineering Controls : | Local exhaust ventilation. |
| Respiratory Protection: | NIOSH/MSHA approved air-purifying respirator equipped with chlorine cartridges when necessary. |
| Skin Protection: | Use rubber gloves and apron. Rubber boots if necessary also. |
| Eye Protection: | Use chemical safety goggles when there is potential for eye contact. |

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| Other Personal Protective Equipment: | Safety showers and eyewash fontains should be installed in storage and handling areas. |
| Handling Procedures and Equipment: | Protect containers against physical damage. |
| Storage Temperature (°C) : | Below 29°C and above freezing point. |
| Storage Requirements: | Store in a cool (below 29°C) dry, well-ventilated area away from incompatibles and direct sunling. Long term storage is impossible without decomposition. Use polyethylene containers. |
| Other Precautions: | No special requirements. |

ENVIRONMENTAL PROTECTION DATA :

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| Steps to be taken in the event of a spill or leak: | Ventile area. Stop and contain leak or spill. Absorb using an inert material (sand, ashes, etc.) collect and dispose. For recovery, pump into polyethylene containers. |
| Waste Disposal Methods: | Consult federal, provincial, state and local regulations on chemical waste disposal. |

ADDITIONAL INFORMATION AND SOURCES USED :

SAX, N.I Dangerous Properties of Industrial Materials.
Supplier's MSDS