SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	SODIUM HYPOCHLORITE (12%W/V)
Other identification (Chemical name, Commercial name, Synonymous)	SODIUM HYPOCHLORITE SOLUTION, CLOROX, DAZZLE
Product code	SS-0912; SS-0812
Chemical formula	NaOCl
Molar weight	74.44
Recommended use and Restrictions on use	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
Supplier	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
Emergency phone	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS	2025-06-16

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Skin corrosion/irritation - Skin corrosion - category 1B
- Serious eye damage/eye irritation - Eye irritation - category 1
- Corrosive to metals - category 1

PICTOGRAMS

Signal Word

DANGER

Hazards statements (H)

- Causes severe skin burns and eye damage
- Causes serious eye damage
- May be corrosive to metals

Precautionary statements (P)

- Do not breathe mists, gases, vapors and other fumes, or the product itself.
- Wear protective gloves (nitrile, butyle, neoprene), protective clothing and eye and face protection.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Immediately call a POISON CENTER or a physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store locked up.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- Keep only in original container.
- Absorb spillage to prevent material damage.
- Store in a corrosion resistant container or a container with corrosion resistant liner.

Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)

Health	2
Fire	0
Reactivity	1
Special danger	

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight/volume
Sodium hypochlorite	7681-52-9	9-13%

SECTION 04 - FIRST AID MEASURE

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Skin, eye and respiratory system irritation. Chemical burns of the skin, eyes and respiratory and digestive mucous membranes. Pulmonary edema. Burning sensation. Nausea and vomiting. Damage to the digestive system. Dermatitis. Death. Effects may be delayed. Ref. section 11.
Immediate medical attention and special treatment, if necessary	Treat according to symptoms. Show this sheet to the attending physician.

SECTION 05 - FIREFIGHTING MEASURES

Suitable extinguishing media	Use dry chemical powder to extinguish the fire.
Unsuitable extinguishing media	Not applicable.
Combustion products	Hazardous combustion products formed under fire conditions: Gaseous chlorine Gaseous Hydrogen Chloride. Sodium oxides. Oxygen.
Specific hazards of the dangerous product	Keep the product and empty containers away from heat and ignition sources. Containers exposed to fire or its heat may explode. May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures	Evacuate personnel to safe areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills.
Methods and materials for containment and cleaning up	Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Dispose of residues in a container for disposal of hazardous materials. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage

Protect from light and sunlight. Do not store in metal containers. Store in a cool and dry place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10).

Methods of handling

Avoid contact withh eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE CONTROL PARAMETERS

Component	CAS-No.	Value
Sodium hypochlorite	7681-52-9	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

Respiratory

If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator. If permitted levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.

Gloves

Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.

Eyes

Safety goggles with safety shutters.

Shoes

Use safety shoes.

Clothes

Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Engineering control

Use fan. Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	Transparent green to yellow
Odour	Chlorine odor
Odour threshold	Data not available
Melting point and freezing point	-30@-20°C
Boiling point	111°C at 1,013 hPa (760 mmHg)
Flammability	Data not available
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Flash point	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Gradual decomposition from about 35°C
pH	11.5-13
Kinematic viscosity	Data not available
Solubility	Data not available
Partition coefficient water/n-octanol	Data not available
Vapour pressure	17.5
Relative density	1.17-1.25 g/ml
Vapour density	Data not available
Particle characteristics	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	Air sensitive. Sensitive to heat. Light sensitive.
Possibility of hazardous reactions	May react violently with incompatible substances. Vapours can form explosive mixtures with air when heated. Containers exposed to fire or its heat may explode.
Conditions to avoid	Avoid moisture. Avoid contact with incompatible materials and extreme temperatures. Avoid contact with incompatible materials.
Incompatible materials	Some metals. Iron. And their alloys. Nickel. Copper. Manganese. Metal powders. Ammonia. Strong acids. Forms nitrogen trichloride, an explosive gas with: Amines. Urea.
Hazardous decomposition products	Gaseous chlorine. Gaseous hydrogen chloride. Sodium oxide. Oxygen.

SECTION 11 - TOXICOLOGICAL INFORMATION

SODIUM HYPOCHLORITE (12%W/V)

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Causes serious eye damage.
- Skin	Irritation. Severe burns and tissue ulcerations. Dermatitis.
- Inhalation	Spasms. Irritation of the mucous membranes and respiratory tract. Irritation and inflammation of the nose, throat and lungs. Edema of the larynx and bronchi. Chemical pneumonitis. Pulmonary edema.
Acute toxicity (Ingestion)	Mucous membrane irritation. Burning of the mouth, throat, esophagus and abdominal wall. Dysphagia. Abdominal pain. Internal lesions. Intense thirst. Diarrhea. Nausea and vomiting. Convulsions. Circulatory collapse. Loss of consciousness. Possible death.
Chronic exposure effects / symptoms	Burning sensation. Dermatitis. Conjunctivitis. Nervous disorders. Lung damage. Chest pain. Cough. Dyspnoea. Laryngitis. Headache. Fatigue. Loss of appetite. Convulsions. Nausea and vomiting. Alopecia.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 8910mg/kg. LD50 Dermal - Rabbit - >5000mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

SODIUM HYPOCHLORITE (12%W/V)

Ecotoxicity	Data not available.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
Other adverse effects	Data not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	1791
UN Proper shipping name	HYPOCHLORITE EN SOLUTION contenant plus de 7% de chlore actif
Transport hazard class(es)	Matières corrosives 8
Packing group	III
Limited quantity index	5 L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

- Skin corrosion/irritation - Skin corrosion - category 1B
- Serious eye damage/eye irritation - Eye irritation - category 1
- Corrosive to metals - category 1

SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail
NIH: National institute of health (U.S. Naltional Library of Medecine)
ECHA: Agence Européenne de Chimie
ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
VECD: Valeur d'exposition courte durée
VEMP: Valeur d'exposition moyenne pondérée
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TLV : Threshold limit value
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling
RSST: Règlement sur la santé et sécurité au travail (Québec)
INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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