

MATERIAL SAFETY DATA SHEET

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SECTION 1 - IDENTIFICATION

PRODUCT IDENTIFIER:	SODIUM CHLORIDE, BRINE SOLUTION
PRODUCT USE:	Stock source of chloride for electrolytic processes, soap manufacture, metallurgy, food preservative and seasoning, highway de-icer and many other applications.
MANUFACTURER:	Canexus Chemicals Canada Limited Partnership 100 Amherst Avenue North Vancouver, British Columbia, Canada V7H 1S4 Emergency, call: (604) 929-3441 To Request an MSDS, call: 1-800-699-6924

This MSDS is available in French upon request.
Cette fiche signalétique est disponible en français sur demande.

SECTION 2 - HAZARDS IDENTIFICATION

WHMIS CLASSIFICATION:

This product is not controlled under WHMIS.

EMERGENCY OVERVIEW:

Sodium chloride presents no serious health effects in normal industrial usage. Sodium chloride solution may contain trace amounts of sodium hydroxide. Sodium chloride is linked to heart and blood pressure problems through dietary intake. Ingestion of large amounts can cause vomiting and serious health effects. Inhalation or dermal exposure can cause mild irritation.

EFFECTS OF SHORT-TERM (ACUTE) EXPOSURE:

INHALATION: Mist may cause mild temporary irritation of the respiratory tract.

SKIN CONTACT: Direct contact with damaged skin can cause mild irritation. Absorption can occur with effects similar to ingestion.

EYE CONTACT: Causes temporary eye irritation, redness, tearing and mild pain if concentration exceeds that of normal body fluids.

INGESTION: Non-occupational ingestion of very large quantities has produced nausea, vomiting, diarrhea, and prostration. Dehydration and congestion occur in most internal organs. Hypertonic salt solutions can produce violent inflammatory reactions in the gastrointestinal tract. Cerebral edema, pulmonary edema, blood cell shrinkage, and brain damage may also occur. Death may result from cardiovascular collapse or damage to the central nervous system.

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EFFECTS OF LONG-TERM (CHRONIC) EXPOSURE:

High blood pressure and heart problems can result from prolonged overconsumption of sodium chloride. Sodium chloride shows no carcinogenicity, teratogenicity, embryotoxicity, reproductive toxicity, or mutagenicity.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Persons afflicted with blood pressure or heart problems may be sensitized to some workplace exposures. Persons with dermatitis may experience enhanced dermal absorption.

SECTION 3 - COMPOSITION

HAZARDOUS INGREDIENTS	% (w/w)	CAS NUMBER
(No hazardous ingredients present)		
Sodium Chloride	24-26	7647-14-5

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove source of contamination or remove victim to fresh air. If symptoms persist, obtain medical advice.

INGESTION: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or is convulsing. Have victim rinse mouth thoroughly with water. Have victim drink 300 mL (10 oz.) of water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Immediately transport to an emergency medical facility.

SKIN CONTACT: Remove contaminated clothing. Flush contaminated area with lukewarm, gently running water for at least 5 minutes, or until the chemical is removed. If irritation persists, repeat flushing. Obtain medical advice if irritation persists.

EYE CONTACT: Immediately flush contaminated eye(s) with lukewarm, gently running water for 5 minutes, or until substance is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into a non-affected eye. If irritation persists, obtain medical attention.

GENERAL COMMENTS: All first-aid procedures should be reviewed by a physician familiar with sodium chloride and its conditions of use in the workplace.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:	Not applicable	LOWER FLAMMABILITY LIMITS:	Not applicable	SENSITIVITY TO MECHANICAL IMPACT:	Not sensitive
AUTOIGNITION TEMPERATURE:	Not applicable	UPPER FLAMMABILITY LIMITS:	Not applicable	SENSITIVITY TO STATIC DISCHARGE:	Not sensitive

HAZARDOUS COMBUSTION PRODUCTS: Sodium chloride releases an irritating vapour when heated to high temperature. Sodium chloride does not support combustion. Chlorine and sodium oxide are liberated at 1000 degrees Celcius.

EXTINGUISHING MEDIA: Does not burn. Use extinguishing media suitable for the surrounding fire.

FIRE FIGHTING INSTRUCTIONS: Remove or isolate materials not involved in the fire if it can be done without risk. Chemical resistant clothing and positive pressure SCBA may be required.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD INDEX:

Not established

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: Wear appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS: Stop or reduce leak if safe to do so. Prevent from entering sewers or waterways.

REMEDIATION MEASURES: Restrict access to area until completion of cleanup. Ensure cleanup is conducted by trained personnel only. Use all appropriate personal protective equipment.

SECTION 7 - HANDLING AND STORAGE

HANDLING: No specific handling procedures are required.

STORAGE: No specific storage procedures are required.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Does not apply.

RESPIRATORY PROTECTION: No specific respirator guidelines are available for sodium chloride. As such, a NIOSH approved dust/mist respirator is required in areas with high mist concentration.

SKIN PROTECTION: It is good practice to prevent skin contact. Wear impervious gloves, and boots and/or other protective clothing according to circumstances.

EYE AND FACE PROTECTION: Eye protection is required. Chemical safety goggles are recommended.

OTHER: Use normal good industrial hygiene procedures.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear solution.	MELTING POINT:	Less than 0 °C
ODOUR:	Odourless.	BOILING POINT:	~107 °C
pH:	6 - 11 (solution in water)	CRITICAL TEMPERATURE:	Not applicable.
VAPOUR PRESSURE:	Not available.	RELATIVE DENSITY:	1.2 @ 20 °C @ 26%
SOLUBILITY:	Completely soluble in water.	PARTION COEFFICIENT: n-OCTANOL/WATER	Not available.
VAPOUR DENSITY:	Not applicable.	EVAPORATION RATE:	Not applicable.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Normally stable. Thermally unstable at extreme temperatures.

INCOMPATIBILITY: Corrosive to steel and iron.

HAZARDOUS DECOMPOSITION PRODUCTS: Sodium chloride decomposes at 1000 °C into sodium oxide and chlorine gas.

HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 11 –TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

LD50 Rat oral: 3000 mg/kg

LD50 Mouse oral: 4000 mg/kg

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CARCINOGENICITY: Not expected

SENSITIZATION: Not a sensitizer

TERATOGENICITY: Not expected

REPRODUCTIVE EFFECTS: Not expected

MUTAGENICITY: Not expected

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Local phytotoxic effects only.

ECOLOGICAL FATE INFORMATION:

Normal biological component. Does not bioaccumulate.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, provincial/state, and local regulations. Consult with your local supplier for additional information.

SECTION 14 - TRANSPORT INFORMATION

CANADIAN TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

Not regulated.

US DOT HAZARDOUS MATERIALS REGULATIONS:

Not regulated.

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SECTION 15 - REGULATORY INFORMATION

CANADIAN FEDERAL REGULATIONS: (not a comprehensive list)

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): Sodium chloride is on the Domestic Substances List (DSL).

WHMIS CLASSIFICATION: Does not meet criteria

WHMIS INGREDIENT DISCLOSURE LIST: Not listed

CPR COMPLIANCE

This product has been classified with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.

UNITED STATES FEDERAL REGULATIONS: (not a comprehensive list)

TOXIC SUBSTANCES CONTROL ACT (TSCA): All components are listed on the inventory.

OSHA: Not a Hazardous Substance under 29 CFR Section 1910, Subpart Z.

CERCLA: Not a Hazardous Substance under 40 CFR Part 302

SARA 313: Not subject to the reporting requirements of 40 CFR Part 372

SARA 311/312 EPA HAZARD CATEGORIES: Immediate (Acute) Health

SARA 302: No ingredients subject to 40 CFR Part 355

SECTION 16 - OTHER INFORMATION

VERSION: 3.0

PREPARED BY: Canexus Chemicals Responsible Care Department. If you have any questions, contact Canexus at:
1-800-699-6924

REVISIONS: Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.