Safety Data Sheet

Section 01 - Identification

Product Identifier	Sodium Chloride; Coarse Crushed Salt; Brining Grade Salt; Fine Salt; System Saver II Pellets
Other Means of Identification	Halilte, Salt
Product Use and Restrictions on Use	Home water conditioner regeneration, de-icing agent, industrial, food, chlorine generation
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Sodium Chloride	7647-14-5	60-100%	
Water	7732-18-5	≤ 40%	

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical advice.
Skin Contact / Absorption	No health effects expected. Flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, seek medical attention.
Eye Contact	If irritation occurs, flush the contaminated eye(s) with lukewarm, gently flowing water for 30 minutes. If irritation persists, obtain medical advice.
Ingestion	Normally non-toxic. If irritation or discomfort occurs, obtain medical advice.
Additional Information	Symptoms may be delayed. All first aid procedures should be periodically reviewed by a doctor familiar with the material and its conditions of use in the workplace.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Product does not burn. Use appropriate extinguishing media for surrounding material that is supplying the fuel to the fire.
Unsuitable Extinguishing Media	Not Available
Specific Hazards Arising From the Chemical	During a fire, corrosive and toxic hydrogen chloride and/or chlorine gases, disodium oxide and other toxic and irritating fumes and gases may be formed by thermal decomposition. Closed containers may explode in the heat of a fire.
Special Protective Equipment and Precautions for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
Further Information	Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so.
Environmental Precautions	Prevent material from entering drains.
Methods and Materials for Containment and Cleaning Up	Avoid generating dust. Use vacuum equipped with HEPA filter(s). Alternatively, dampen spilled material with water. Shovel into clean, dry, labelled containers. Cover containers. Flush area with water.

Section 07 - Handling and Storage

Precautions for Safe Handling	This material is essentially non-hazardous. 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. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for Safe Storage	Store in a cool, dry place. Keep container tightly closed, and away from incompatible materials.
Incompatibilities	Nitrogen compounds, bromine trifluoride, lithium, peroxyacetic acid, acetic acid.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sodium Chloride	Not Established		

Engineering Control(s)

Ventilation Requirements	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face	No specific requirement, but it is good practice to wear chemical safety goggles.

Hand Protection	No specific requirement, but it is good practice to prevent skin contact.
Skin and Body Protection	No specific requirement, but it is good practice to prevent skin contact. No special footwear is required other than what is mandated at place of work.
Respiratory Protection	Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended.
Thermal Hazards	Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Solid
Colour	White or clear crystals
Odour	Odourless
Odour Threshold	Not Applicable

Property

pH	6.7-7.3 (aqueous solution)
Melting Point/Freezing Point	801°C
Initial Boiling Point and Boiling Range	1465°C
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Non-Flammable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Very low.
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Available
Solubility(ies)	Very soluble (36g/100g water at 20°C) Soluble in glycerol and aqueous ammonia; moderately soluble in methanol, ethylene glycol and formic acid; very slightly soluble in ethanol.
Partition Coefficient: n-octanol/water	Log P_{OW} = -0.46 (estimated)
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	Not Applicable

Explosive Properties	Electrolysis of sodium chloride in presence of nitrogenous compounds to produce chlorine may lead to formation of explosive nitrogen trichloride. Potentially explosive reaction with dichloromaleic anhydride and urea.
Specific Gravity (Water=1)	2.16
% Volatiles by Volume	0
Formula	NaCl
Molecular Weight	58.44

Section 10 - Stability and Reactivity

Reactivity	Not Available.
Stability	Normally stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	Generation of dust.
Incompatible Materials	Nitrogen compounds, bromine trifluoride, lithium, peroxyacetic acid, acetic acid, strong acids, and strong ozidizers.
Hazardous Decomposition Products	Corrosive and toxic hydrogen chloride and/or chlorine gases and disodium oxide may be formed by thermal decomposition or in a fire.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Sodium Chloride	3000mg/kg (rat) 4000mg/kg (mouse)	10,000mg/kg (rabbit)	10500mg/m^3 (rat, 4hr)

Chronic Toxicity – Carcinogenicity

Component	IARC
Sodium Chloride	Not considered to be carcinogenic by NTP, IARC, ACGIH and OSHA

Skin Corrosion/Irritation	Sodium chloride is a non-irritant to mild irritant. Prolonged exposure (24 hours) has caused mild irritation in unpublished studies
Ingestion	Non-toxic. Over-exposure may cause high blood pressure, disagreeable taste, nausea and vomiting.
Inhalation	Not toxic through inhalation, over-exposure results in slight irritation of nose and sneezing.
Serious Eye Damage/Irritation	Sodium chloride is a non-irritant to very mild irritant.
Respiratory or Skin Sensitization	Sodium chloride is not a skin sensitizer.
Germ Cell Mutagenicity	Sodium chloride is not known to be mutagenic.
Reproductive Toxicity	Sodium chloride is not known to cause reproductive toxicity.
STOT-Single Exposure	Mild irritant to upper respiratory tract and mucous membranes.

STOT-Repeated Exposure	Not Available
Aspiration Hazard	Not Available
Synergistic Materials	Sodium chloride has increased the incidence of some cancers initiated by known carcinogens. It has increased stomach cancer in rats when high doses are ingested and tracheal cancer in mice and hamsters when a 5% mist is inhaled.

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Sodium Chloride	LC_{50}(Diatom, 5d): 2430mg/L	LC_{50}(Lepomis macrochirus, 96hr): 1294.6mg/L	EC_{50}(Daphnia magna, 48hr): 402.6mg/L

Biodegradability	The product itself and products of degradation are not toxic.
Bioaccumulation	Not Available
Mobility	Not Available
Other Adverse Effects	May be harmful to plants that are not saline tolerant.

Section 13 – Disposal Considerations

Waste From Residues/Unused Products	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packaging Group	Not Regulated
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
Special Precautions	Not Available
Transport in Bulk	Not Available

TDG

Other	Secure containers (full and/or empty) with suitable hold down devises during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

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

Section 16 – Other Information

Preparation Date	September 1, 2015
Revision Date	November 29, 2018

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.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

1) CHEMINFO
2) eChemPortal
3) TOXNET
4) Transportation of Dangerous Goods Canada
5) HSDB
6) ECHA

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