Advance Chemicals Ltd.

Safety Data Sheet

Section 01 - Identification

Product Identifier	KLO-SAN-FP15
Other Means of Identification	None
Product Use and Restrictions on Use	For general cleaning of floors, walls and work surfaces in food packaging & handling area, and in the following agricultural area; milk rooms, hydroponics irrigation lines and greenhouse working surfaces and implements.
Initial Supplier Identifier	Advance Chemicals Ltd. 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

Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Irritation	Category 1
Acute Toxicity-Oral	Category 4
STOT-Repeated Exposure	Category 2

Physical Hazards

No known physical hazards.

Danger

Hazard Statements
H314 – Causes severe skin burns and eye damage.
H302 – Harmful if swallowed.
H373 – May cause damage to the spleen through prolonged or repeated exposure.

Pictograms

Precautionary Statements

P260 – Do not breathe mist, vapours or spray.
P264 – Wash affected body parts thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P280 – Wear protective gloves, protective clothing, eye protection, and face protection.
P301 +P330 + P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310 – Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 – Wash contaminated clothing before reuse.
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 – Get medical advice if you feel unwell.
P405 – Store locked up.
P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Sodium Chlorite	7758-19-2	7-22%	Not Available
Water	7732-18-5	78-93%	

Section 04 - First Aid Measures

Inhalation
If symptoms are experienced, remove victim to fresh air. If difficulties breathing persist, seek medical attention.

Skin Contact / Absorption
Remove contaminated clothing under running water. Rinse skin with lukewarm water for 30 minutes. Seek immediate medical attention. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Eye Contact
Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while forcibly holding the eyelid(s) open to ensure complete irrigation of the eye tissue. If a contact lens is present, remove only if easy to do so. Seek immediate medical attention.

Ingestion
NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth and drink 240 to 300 mL of water to dilute stomach. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim repeat water administration. Milk may be given after water. Seek immediate medical attention.

Additional Information
Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media
Use extinguishing agent suitable for surrounding fire and not contraindicated for use with sodium chlorine.

Unsuitable Extinguishing Media
Not Available

Specific Hazards Arising From the Chemical
Toxic gases and fumes may form in a fire.

Special Protective Equipment and Precautions for Fire-Fighters
Wear NIOSH-approved self-contained breathing apparatus and protective gear.

Further Information	Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Vapours evolved from the spill or leak can be knocked down with water fog or spray. Only enter area with PPE. Stop or reduce leak if safe to do so. Prevent material from entering sewers and waterways. Flush with water to remove any residue.
Environmental Precautions	Prevent product from entering sewers or confined spaces.
Methods and Materials for Containment and Cleaning Up	Clean up spill with non-reactive absorbent material and place in suitable, labelled containers for proper disposal. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

Section 07 - Handling and Storage

Precautions for Safe Handling	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.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area, out of direct sunlight. Do not allow the temperature of any part of a sodium chlorite container to exceed 49°C. Store away from incompatible materials.
Incompatible Materials	Strong oxidizers and reducing agents Lewis or mineral acids.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sodium Chlorite	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	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.
Hand Protection	Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
Skin and Body Protection	Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.

Respiratory Protection	An approved respirator suitable for protection from dusts and mists may be adequate.
Thermal Hazards	Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Liquid
Colour	Pale yellow
Odour	Chlorine-like
Odour Threshold	Not Available

Property

pH	11.9
Melting Point/Freezing Point	Not Available
Initial Boiling Point and Boiling Range	Not Available
Flash Point	Not Applicable
Evaporation Rate	Not Available
Flammability	Non-flammable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20^{o}C)	Not Available
Vapour Density (Air=1)	Not Available
Relative Density	Not Available
Solubility(ies)	Soluble in water
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive Properties	Not Available
Specific Gravity (Water=1)	1.122
% Volatiles by Volume	Not Available

Formula	Mixture
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Stable
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Reactions with acids.
Incompatible Materials	Strong oxidizers, reducing agents Lewis or mineral acids.
Hazardous Decomposition Products	Chlorine dioxide.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Sodium Chlorite	165 mg/kg (rat)	Not Available	290 mg/m^3 (rat, 4hr)

Chronic Toxicity – Carcinogenicity

Component	IARC
Sodium Chlorite	Group 3: Not carcinogenic to humans.

Skin Corrosion/Irritation	Corrosive. Capable of producing burns, blisters and permanent scarring.
Ingestion	May cause gastrointestinal discomfort, nausea, vomiting and diarrhea. Sodium chlorite can also cause temporary damage to the red blood cells.
Inhalation	Formation of mists may cause irritation to the nose and throat.
Serious Eye Damage/Irritation	Corrosive. Capable of producing severe eye burns and permanent damage, including blindness.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Not Available
STOT-Single Exposure	Not Available
STOT-Repeated Exposure	Can cause damage to the spleen through prolonged or repeated exposure.
Aspiration Hazard	Not Available
Synergistic Materials	Not Available

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Sodium Chlorite	EC_{50}(Green algae, 4d): 1.32 mg/L	LC_{50}(Ocorhynchus mykiss, 96hr): 203 mg/L	EC_{50}(Daphnia magna, 48hr): 0.014 mg/L

Biodegradation	Sodium chlorite biodegrades to the non-toxic chloride ion.
Bioaccumulation	Sodium chlorite is not expected to bioaccumulate.
Mobility	Not Available
Other Adverse Effects	Not Available

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	UN1908
UN Proper Shipping Name	CHLORITE SOLUTION
Transport Hazard Class(es)	8
Packaging Group	II
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
Special Precautions	Not Available
Transport in Bulk	Not Available

Additional Information

Packing Group	Limited Quantity Index
II	1 L
III	5 L

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	March 14, 2016
Revision Date	September 7, 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) CHRIS
6) HSDB
7) ECHA

Advance Chemicals Ltd. - Locations

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