



Section 01 - Identification

Product Identifier	Enviro Safe Detergent
Other Means of Identification	None
Product Use and Restrictions on Use	Non-caustic, phosphate and sulfate free, environmentally friendly, aluminum safe detergent
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

Physical Hazards

No known physical hazards.

Danger

Hazards Statements

H314 – Causes severe skin burns and eye damage.

Pictograms



Precautionary Statements

P260 – Do not breathe mist, vapours or spray.

P280 – Wear protective gloves, protective clothing, eye protection, and face protection.

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P310 – Immediately call a POISON CENTER or doctor/physician.

P363 – Wash contaminated clothing before reuse.

P405 – Store locked up.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Tetrasodium Ethylene Diamine Tetraacetate	64-02-8	1 - 5%	
Sodium Metasilicate	6892-92-0	5 – 15%	
Water and/or ingredients not classified as hazardous under the Hazardous Products Regulations		Balance	

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.
Skin Contact / Absorption	Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water and non-abrasive soap for 30 minutes or until chemical is removed. Seek immediate medical attention.
Eye Contact	Immediately flush eye(s) with lukewarm, gently flowing water for 30 minutes, while forcibly holding the eyelid(s) open to ensure complete irrigation of the eye tissue. If a contact lens is present, DO NOT delay irrigation or attempt to remove lens until flushing is complete. Seek immediate medical attention.
Ingestion	Do not give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek medical attention.
Additional Information	Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Use dry chemicals, CO ₂ , alcohol foam or water spray.
Unsuitable Extinguishing Media	Not Available
Specific Hazards Arising From the Chemical	Oxides of nitrogen and carbon, ammonia, and other toxic and/or irritating compounds.
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. Only enter area with PPE. Stop or reduce leak if safe to do so.

Environmental Precautions Prevent material from entering sewers or waterways.

Methods and Materials for Containment and Cleaning Up Clean up spilled material with inert absorbent and place in suitable, covered, labelled containers for proper disposal. Clean up residual with absorbent and flush with water.

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 Do not store in aluminum, carbon steel, copper, copper alloys, zinc or nickel containers. Place away from incompatible materials.

Incompatibilities Oxidizers, metals.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Enviro Safe Detergent	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 suite, 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 In areas of high mists, use an approved mist respirator. Particulate filter.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Liquid
Colour	Colourless
Odour	Odourless
Odour Threshold	Not Available
<u>Property</u>	
pH	13 - 14
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 Available
Lower Flammable Limit	Not Available
Vapour Pressure (mm Hg, 20°C)	<0.35
Vapour Density (Air=1)	Same as water
Relative Density	Not Available
Solubility(ies)	Miscible in water. Insoluble in most common organic solvents.
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	>200°C
Decomposition Temperature	Not Available
Viscosity	20 cSt @ 20°C
Explosive Properties	None
Specific Gravity (Water=1)	1.13
% Volatiles by Volume	Not Available
Formula	Mixture
Molecular Weight	Not Applicable

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Stable.

Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Excessive heat. Some component of this product can decompose at elevated temperatures.
Incompatible Materials	Oxidizers, Acids
Hazardous Decomposition Products	During a fire, tetrasodium ethylenediaminetetraacetate gives off carbon monoxide, carbon dioxide, irritating/toxic nitrogen oxides and sodium oxides.

Section 11 - Toxicological Information

Acute Toxicity Estimate

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Enviro Safe Detergent	>5g/kg	>5g/kg	Not Available

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

Chronic Toxicity – Carcinogenicity

Component	IARC
Enviro Safe Detergent	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

Skin Corrosion/Irritation	Repeated contact may cause skin burns, pain, severe local redness, swelling and tissue damage. Mist may irritate the skin.
Ingestion	May cause gastrointestinal irritation or ulceration. Ingestion may cause burns of the mouth and throat.
Inhalation	Mist may cause irritation to upper respiratory tract.
Serious Eye Damage/Irritation	Can cause corneal injury and severe, permanent damage and loss of vision. Mists may cause eye irritation.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Contains component(s) that have caused birth defect in laboratory animals only at doses toxic to the mother.
STOT-Single Exposure	May cause respiratory irritation.
STOT-Repeated Exposure	Not Available
Aspiration Hazard	Product may be aspirated into the lungs causing severe lung injury.
Synergistic Materials	Not Available

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Tetrasodium Ethylene Diamine Tetraacetate	Not Available	LC ₅₀ (Lepomis macrochirus, 96hr): 486mg/L	LC ₅₀ (Daphnia magna, 24hr): 625mg/L
Sodium Metasilicate	Not Available	Not Available	Not Available

Biodegradability Ingredients are either inorganic, or are biodegradable

Bioaccumulation	Product is not expected to bioaccumulate
Mobility	Not Available
Other Adverse Effects	Product is practically non-toxic to fish.

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	UN3267
UN Proper Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Tetrasodium Ethylene Diamine Tetraacetate)
Transport Hazard Class(es)	8
Packaging Group	III
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 devices during shipment and ensure all caps, valves, or closures are secured in the closed position.
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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	2017 June 5
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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

Advance Chemicals Ltd. - Locations

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