



Safety Data Sheet

Section 01 - Identification

Product Identifier	ClearSurf AOS Plus
Other Means of Identification	Alpha Olefin Sulfonate Solution
Product Use and Restrictions on Use	Surfactant
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
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Section 02 - Hazard Identification

GHS-Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Irritation	Category 1

Physical Hazards

No known physical hazards

Warning

Hazard Statement

H315 – Causes skin irritation

H318 – Causes serious eye damage

Pictograms



Precautionary Statements

P264 – Wash hands thoroughly after handling.

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

P302 + P352 – IF ON SKIN: Wash with plenty of water.

P332 + P313 – If skin irritation occurs: Get medical advice/attention.

P362 + P364 – Take off contaminated clothing and wash before reuse.

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 – Immediate call a POISON CENTRE/doctor.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Alpha Olefin Sulfonate	68439-57-6	38-40%	Not Available

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 for minutes. If irritation persists, repeat flushing. Seek medical attention. Completely decontaminate clothing, shoes and leather goods at the scene for safe disposal.
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. If irritation persists, seek medical attention.
Ingestion	Have victim rinse mouth thoroughly with water. If vomiting occurs naturally, have victim rinse mouth with water again. If irritation or discomfort occur, seek medical attention.
Additional Information	Consult a doctor and/or the nearest Poison Control Centre for all exposures.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Unsuitable Extinguishing Media	Not Available
Specific Hazards Arising From the Chemical	Carbon monoxide, carbon dioxide and other irritant gases and vapour, which may include unburned acid and toxic constituents, may be generated. Closed containers may rupture violently when heated.
Special Protective Equipment 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 sewers or confined spaces.
Methods and Materials for Containment and Cleaning Up	SMALL SPILLS: Clean up spill with non-reactive absorbent and place in suitable, covered, labelled containers. Flush area with water. 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.
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Conditions for Safe Storage

Store in a cool, dry, well-ventilated area, out of direct sunlight and away from heat and ignition sources. Keep storage area clear of burnable materials. Store away from incompatible materials.

Section 08 - Exposure Controls and Personal Protection**Exposure Limit(s)**

Component	Regulation	Type of Listing	Value
ClearSurf AOS Plus	Not Available		

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 safety goggles. A face shield may also be necessary. 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

Wear a NIOSH-approved respirator upon vapour or mist formation.

Thermal Hazards

Not Available

Section 09 - Physical and Chemical Properties**Appearance****Physical State**

Liquid

Colour

Colourless

Odour

Not Available

Odour Threshold

Not Available

Property**pH**

8-9 (@10%)

Melting Point/Freezing Point

-8°C

Initial Boiling Point and Boiling Range

>100°C

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°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	1.11 mPa·s
Explosive Properties	None
Specific Gravity (Water=1)	1.06 ± 0.01 @ 20°C
% Volatiles by Volume	Not Available
Formula	Not Available
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Normally stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	Contact with incompatible materials
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	During a fire, oxides of carbon and sulphur.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD₅₀	Dermal LD₅₀	LC₅₀
ClearSurf AOS Plus	>2 g/kg (rat)	>2 g/kg (rabbit)	Not Available

Chronic Toxicity – Carcinogenicity

Component	IARC
ClearSurf AOS Plus	Not listed to be carcinogenic as per IARC and ACGIH.
Skin Corrosion/Irritation	Skin irritant.
Ingestion	Irritating to the mouth, throat and gastrointestinal tract.
Inhalation	May cause irritation of the nose and throat, shortness of breath, cough, wheezing, and reversible lung injury.
Serious Eye Damage/Irritation	Causes eye damage.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Not Available
Specific target organ toxicity-Single Exposure	Not Available
Specific target organ toxicity-Repeated Exposure	Not Available
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
ClearSurf AOS Plus	EC ₅₀ (Green algae, 72hr): 45mg/L	LC ₅₀ (96hr): 2.5-5mg/L	LC ₅₀ (Daphnia magna, 24hr): 4.48mg/L
Biodegradability	Biodegradable		
Bioaccumulation	Not Available		
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	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 devices 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 11, 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

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