



# Safety Data Sheet

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## Section 01 - Product And Company Identification

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<b>Product Identifier</b>	ClearSurf LABSA ClearSurf LABSA-LC
<b>Other Means of Identification</b>	Linear alkyl benzene sulfonic acid, dodecylbenzene sulfonic acid
<b>Product Use and Restrictions on Use</b>	High efficiency biodegradable anionic liquid detergent
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
<b>Prepared By</b>	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
<b>24-Hour Emergency Phone</b>	Phone: 1 (306) 664 – 2522

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## Section 02 - Hazard Identification

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### GHS-Classification

<b>Acute Toxicity, Oral</b>	Category 4
<b>Skin Corrosion/Irritation</b>	Category 1
<b>Serious Eye Damage/Irritation</b>	Category 1
<b>Carcinogenicity</b>	Category 1

### Physical Hazards

Not Classified

**Danger**

### **Hazard Statements**

H302 – Harmful if swallowed.

H314 – Causes severe skin burns and eye damage.

H350 – May cause cancer through exposure to strong-inorganic acid mists.

### **Pictograms**



## Precautionary Statements

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.

P234 – Keep only in original container.

P260 – Do not breathe mist, vapours or spray.

P264 – Wash 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.

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

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.

P308 + P313 – IF exposed or concerned: Get medical advice/attention.

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

P363 – Wash contaminated clothing before reuse.

P390 – Absorb spillage to prevent material damage.

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.

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## Section 03 - Composition / Information on Ingredients

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Chemical Name	CAS Number	Weight %	Unique Identifiers
Dodecylbenzenesulphonic acid	27176-87-0	>96%	Not Available
Unsulphonated alkylbenzene	129813-58-7	<2%	Not Available
Sulfuric acid	7664-93-9	<1.5%	Not Available

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## Section 04 - First Aid Measures

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<b>Inhalation</b>	Move to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Skin Contact / Absorption</b>	Immediately remove contaminated clothing, and rinse affected area with water. If irritation persists, seek medical aid. Wash contaminated clothing before reuse.
<b>Eye Contact</b>	Immediately flush eye(s) with lukewarm, gently flowing water for 30 minute while forcibly holding the eyelids 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.
<b>Ingestion</b>	Rinse mouth. Call poison control immediately. Do not induce vomiting.
<b>Additional Information</b>	Not Available

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Use fire extinguishing agents suitable for surrounding fire.
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Specific Hazards Arising From the Chemical</b>	Gases that are hazardous to life may be formed during a fire.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective gear.
<b>Further Information</b>	Not Available

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## Section 06 - Accidental Release Measures

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**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. Spilled material may cause floors and contact surfaces to become slippery.

**Environmental Precautions** Prevent material from entering sewers or waterways.

**Methods and Materials for Containment and Cleaning Up** Clean up spill with non-reactive absorbent and place in suitable, labelled containers for proper disposal.  
LARGE SPILLS: Contact fire and emergency services and supplier for advice.

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## Section 07 - Handling and Storage

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**Precautions for Safe Handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. 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. Avoid generation of dust. Do not use with incompatible materials.

**Conditions for Safe Storage** Store in a cool, dry area out of direct sunlight and away from heat.

**Incompatibilities** Strong reducing agents, strong bases.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Sulfuric Acid	OSHA	PEL	1mg/m <sup>3</sup>
	ACGIH	TWA	.2mg/m <sup>3</sup>
	NIOSH	TWA	1mg/m <sup>3</sup>

### 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** If there is insufficient ventilation, wear suitable NIOSH approved respiratory protection.

**Thermal Hazards** Not Available

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## Section 09 - Physical and Chemical Properties

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## Appearance

Physical State	Viscous liquid
Colour	Dark amber
Odour	Acrid
Odour Threshold	Not Applicable

## Property

pH	<1
Melting Point/Freezing Point	-18°C
Initial Boiling Point and Boiling Range	>100°C
Flash Point	Not Applicable
Evaporation Rate	Not Available
Flammability	Not Applicable
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)	Not Availabel
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	~1000cP @ 25°C
Explosive Properties	Not Available
Specific Gravity (Water=1)	>1 @ 25°C
% Volatiles by Volume	Not Available
Formula	C <sub>18</sub> H <sub>30</sub> SO <sub>3</sub>
Molecular Weight	348.48 g/mol

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## **Section 10 - Stability and Reactivity**

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Reactivity	Not Available
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<b>Stability</b>	Normally stable.
<b>Possibility of Hazardous Reactions</b>	No dangerous reactions known under normal use.
<b>Conditions to Avoid</b>	Reacts violently with strong alkalis. Keep away from heat and sparks. This product may react with reducing agents.
<b>Incompatible Materials</b>	Strong reducing agents, and strong bases.
<b>Hazardous Decomposition Products</b>	No hazardous decomposition products known

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## Section 11 - Toxicological Information

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### Acute Toxicity

Component	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
ClearSurf LABSA	650 mg/kg (rat)	Not Available	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
Sulfuric acid	May cause cancer: IARC category 1: Strong inorganic acid mists containing sulfuric acid.

<b>Skin Corrosion/Irritation</b>	Causes skin damage.
<b>Ingestion</b>	Causes burns to digestive tract. Harmful if swallowed.
<b>Inhalation</b>	Inhalation may be harmful. May cause respiratory irritation.
<b>Serious Eye Damage/Irritation</b>	This material causes serious and permanent eye damage.
<b>Respiratory or Skin Sensitization</b>	Not expected to cause sensitization.
<b>Germ Cell Mutagenicity</b>	Not expected to be mutagenic.
<b>Reproductive Toxicity</b>	Not expected to cause reproductive toxicity.
<b>STOT-Single Exposure</b>	May be irritating to the respiratory system.
<b>STOT-Repeated Exposure</b>	Not Available
<b>Aspiration Hazard</b>	Not Available
<b>Synergistic Materials</b>	Not Available

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## Section 12 – Ecological Information

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### Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
ClearSurf LABSA	EC <sub>50</sub> (72hr): >47.3mg/L	LC <sub>50</sub> (48hr): 1.67mg/L	LC <sub>50</sub> (Daphnia magna, 96hr): 2.4mg/L

<b>Biodegradability</b>	Readily biodegradable
<b>Bioaccumulation</b>	Not Available
<b>Mobility</b>	Not Available

Other Adverse Effects Not Available

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## Section 13 – Disposal Considerations

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**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.

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## Section 14 – Transport Information

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**UN Number** UN2586

**UN Proper Shipping Name** ALKYL SULFONIC ACIDS, LIQUID

**Transport Hazard Class(es)** 8

**Packaging Group** III

**Environmental Hazards** Not listed as a marine pollutant under Canadian TDG Regulations.

**Special Precautions** Not Available

**Transport in Bulk** Not Available

<b>Additional Information</b>	<u>Packing Group</u>	<u>Limited Quantity Index</u>
	I	0
	II	1 L
	III	5 L

### 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.

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## Section 15 – Regulatory Information

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**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.**

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## Section 16 – Other Information

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**Preparation Date** 2017 November 7

**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<sup>®</sup> 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
- 8) PAN

**ClearTech Industries Inc. - Locations**

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