

Section 01 Identification

ClearSurf LABSA **Product Identifier**

> ClearSurf LABSA H2P ClearSurf LABSA-LC

Other Means of Identification Benzenesulfonic acid, dodecyl-; CAS: 27176-87-0; LABSA; Linear alkylbenezene

sulphonic acid; LAS

on Use

Product Use and Restrictions Anionic surfactant for commercial and industrial use.

Initial Supplier Identifier ClearTech Industries Inc.

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Prepared By ClearTech Industries Inc. technical writer

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Section 02 Hazard Identification

Physical Hazards

This product does not qualify for any physical hazard class under WHMIS 2015

Health Hazards

Acute toxicity - oral Category 4 Skin corrosion / irritation Category 1C Serious eye damage / eye Category 1

irritation

Carcinogenicity Category 1A

Environmental Hazards

Hazardous to the aquatic Category 3 environment - chronic hazard

Danger

Signal Word

Hazard Statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H350 May cause cancer through prolonged exposure to mists

H412 Harmful to aquatic life with long lasting effects.

Pictograms

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Precautionary Statements

Prevention

P201 Obtain special instructions before use.

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

P260 Do not breathe vapours, fumes, or mists.

P264 Wash affected body parts thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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

Response

P301 P312 P330 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if P331 you feel unwell.

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

P363 shower. Wash contaminated clothing before reuse.

P304 P340 P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

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 or attention.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents / container in accordance with all federal, provincial and / or local regulations including the Canadian Environmental Protection Act.

Hazards Not Otherwise Classified

Not available

Supplemental Information

Not available

Section 03 Composition / Information on Ingredients

Hazardous Ingredients:

Chemical name	Common name(s)	CAS number	Concentration (w/w%)
Benzenesulfonic acid, dodecyl-	Linear alkylbenezene sulphonic acid (LABSA)	27176-87-0	≥95%
Sulphuric acid	Sulfuric acid	7664-93-9	≤1.5%

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Section 04 First-Aid Measures

Description of necessary first-aid measures

Inhalation Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor. If breathing has stopped, trained personnel should begin rescue breathing or if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). Avoid mouth to mouth contact by using a barrier device. If exposed or concerned: Get medical advice /

attention.

Ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs

naturally, lie on your side, in the recovery position. Call a POISON CENTER or doctor if you feel unwell. Rinse

mouth. If exposed or concerned: Get medical advice / attention.

Skin Avoid direct contact. Wear chemical protective clothing, if necessary. Take off immediately contaminated contact clothing, shoes and leather goods. Rinse skin with lukewarm, gently flowing water / shower for 30 minutes.

Immediately call a POISON CENTER or doctor. Wash contaminated clothing before re-use, or discard. If

exposed or concerned: Get medical advice / attention.

Eye Avoid direct contact. Wear chemical protective gloves, if necessary. Remove source of exposure or move contact person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while

holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 30 minutes.

Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a

POISON CENTER or doctor.

Most important symptoms and effects, both acute and delayed

Inhalation Causes severe burns to the mouth and throat (mist). May cause cancer through prolonged exposure to

mists.

Ingestion Causes burns to the mouth and throat. Harmful if swallowed.

Causes severe skin burns. Skin contact Eye contact Causes serious eye damage.

Further information For further information see Section 11 Toxicological Information.

Section 05 Fire Fighting Measures

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing

media

Water jets are not recommended in fires involving chemicals.

the chemical

Specific hazards arising from In the event of a fire oxides of carbon and sulphur may be released. Thermal decomposition

occurs at 150 °C.

for fire-fighters

Special protective equipment Wear NIOSH-approved self-contained breathing apparatus and chemical-protective clothing.

Section 06 Accidental Release Measures

Personal Precautions / **Protective Equipment / Emergency Procedures** Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area. Do not breathe vapours, fumes, or mists.

Environmental Precautions Do NOT let this chemical enter the environment. Prevent material from entering waterways,

sewers or confined spaces. Notify local health and wildlife officials. Notify operators of

nearby water intakes.

Methods and Materials for Containment and Cleaning Up

SMALL SPILLS: Stop or reduce leak if safe to do so. Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product.

LARGE SPILLS: Contact fire and emergency services and supplier for advice.

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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. Prevent the release of vapours, fumes, or mists into

the workplace air.

Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills

and leaks readily available.

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

materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect

label and keep it visible.

Incompatibilities Bases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime),

ammonia, carbonates.

Reducing agents, such as hydrogen, sodium borohydride, sulphur dioxide, thiosulphates,

hydrazine, phosphites, carbon, and oxalic, formic and ascorbic acid.

Section 08 Exposure Controls and Personal Protection

Exposure limits

Component Regulation Type of listing Value Sulfuric acid (Thoracic) **ACGIH TWAS** 0.2 mg/m³

Engineering controls

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

> control of process conditions should 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 An emergency shower and eyewash station should be available, tested, and be in close

proximity to the product being handled in accordance with provincial regulations.

Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

Eye and face protection Where there is potential eye or face exposure, tightly fitting safety goggles and a face shield

> or a full face respirator or similar protective equipment which protects the wearer's face and eyes are recommended. Contact lenses are not recommended; they may contribute to

severe eye injury.

Hand and body protection Disposable latex or nitrile gloves are recommended to prevent incidental contact. Butyl

rubber, neoprene, or PVC skin protection is recommended for extended contact. Leather

gloves are not recommended for chemical protection. Refer to manufacturer's

specifications for breakthrough times and permeability information; note that breakthrough times and permeability vary with temperature, application and age of material. Continued use of contaminated safety gear or clothing is not recommended; wash before reuse or

discard.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards Not available

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Section 09 Physical and Chemical Properties

Appearance

Physical state Liquid Colour Brown

Odour Not available
Odour threshold Not available

Property

pH <1 Melting point / freezing point \sim -18 °C Initial boiling point and >100 °C

boiling range

Not available Flash point Evaporation rate Not available **Flammability** Not applicable Upper flammable limit Not available Not available Lower flammable limit Vapour pressure Not available Vapour density 0 Pa @ 25°C Relative density Not applicable

Solubility 139 g/L @ 20°C in water

Partition coefficient: n-

octanol/water

2.2

Auto-ignition temperature Not available

Decomposition temperature Not available

Viscosity ~1000cP @ 25°C

Specific gravity $1.06 \pm 0.01 \text{ g/mL} @ 20 ^{\circ}\text{C}$

Particle characteristics Not applicable

Section 10 Stability and Reactivity

Reactivity Reacts violently with bases.

Stability This product is stable if stored according to the recommendations in Section 07.

Possibility of hazardous

reactions

Hazardous polymerization is not known to occur.

Conditions to avoid Avoid contact with incompatible materials. Do not heat.

Incompatible materialsBases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime),

ammonia, carbonates.

Reducing agents, such as hydrogen, sodium borohydride, sulphur dioxide, thiosulphates,

hydrazine, phosphites, carbon, and oxalic, formic and ascorbic acid.

Hazardous decomposition

products

Thermal decomposition may produce oxides of carbon and sulphur. Thermal decomposition

occurs at 150 °C.

Section 11 Toxicological Information

Acute Toxicity (LD50 / LC50 values)

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Component	Route	Species	Value	Exposure time
LABSA	Oral	Rat	1470 mg/kg bw	
	Dermal	Rat	>2000 mg/kg bw	

Toxic Health Effect Summary

Chemical characteristics No known effects

Skin Causes severe skin burns.

Causes burns to the mouth and throat. Harmful if swallowed. Ingestion

Inhalation Causes severe burns to the mouth and throat (mist). May cause cancer through prolonged exposure to

mists.

Eye contact Causes serious eye damage.

Sensitization This product and its components at their listed concentration have no known sensitizing effects. Mutagenicity This product and its components at their listed concentration have no known mutagenic effects. Carcinogenicity ACGIH has classified acid mists, strong inorganic as category A1 - Confirmed human carcinogen.

Reproductive toxicity

This product and its components at their listed concentration have no known reproductive effects.

Specific organ

toxicity

This product and its components at their listed concentration have no known effects on specific

organs.

Aspiration hazard Not available **Synergistic** Not available

materials

Section 12 Ecological Information

Ecotoxicity

Component	Type	Species	Value	Exposure Time
LABSA	LC50	Fish	1.67 mg/L	96 hours
	EC50	Aquatic invertabrates	2.9 mg/L	48 hours
	EC50	Algea	7.39 mg/L	72 hours
	EC10	Aquatic plants	0.30 mg/L	28 days

Biodegradability The domestic substance list categorizes all of the components of this product as non-

persistent.

Bioaccumulation The domestic substance list categorizes all of the components of this product as non-

bioaccumulative.

Mobility This product is water soluble, is not predicted to adsorb to soil and may contaminate ground

water.

Other adverse effects Not available

Section 13 Disposal Considerations

Waste From Residues / **Unused Products**

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Do not remove label, follow label warnings even after the container is empty. Empty containers should be recycled or disposed of at an approved waste handling facility.

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Section 14 Transport Information

UN number UN2586

UN proper shipping name ALKYLSULPHONIC ACIDS, LIQUID

and description with not more than 5% free sulphuric acid

Transport hazard class(es) 8
Packing group III

Excepted quantities Not available

Environmental hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special precautions

No special precautions

Transport in bulk

ERAP index: not available

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Additional information Secure containers (full or empty) 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 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

Section 15 Regulatory Information.

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

All components of this product appear on the domestic substance list.

Section 16 Other Information

Date of latest revision: October 23, 2023

Note: The responsibility to provide a safe workplace remains with the buyer / user. The buyer / 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 buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the RDC 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) *NIOSH Pocket Guide to Chemical Hazards;* U.S. Department of Health and Human Services, https://www.cdc.gov/niosh/npg/default.html

2) WorkSafe BC E-Limit; Workers' Compensation Foard of British Columbia, https://elimit.online.worksafebc.com/

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- 3) ECHA Registered Substance Dossier; European Chemicals Agency, https://echa.europa.eu/registration-dossier/-/registered-dossier/11796
- 4) Transportation of Dangerous Goods Regulations; Transport Canada, https://laws-lois.justice.gc.ca/eng/regulations/SOR-2001-286/index.html
- 5) Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Seventh revised edition
- 6) International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) 2007 Edition
- 7) The ACS Style Guide

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