

MATERIAL SAFETY DATA SHEET

Page 001
Date Prepared: 12/19/02
Date Printed: 10/10/03
MSDS No: 301-0004682-001.002

CALSOFT LAS-99

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: CALSOFT LAS-99
General or Generic ID: MIXTURE - SULFONIC ACID
Company



4545 ARDEN STREET • SOUTH GATE • CA • 90280
323-822-6000 • FAX (323) 773-0909

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
DODECYLBENZENE SULFONIC ACID	27176-87-0	98.0-100.0
ETHYLENIC ACID	7664-93-9	1.5- 1.5
BENZENE, C10-16 ALKYL DERIVATIVES	68648-87-3	1.0- 3.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye
Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin
Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage.

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Swallowing

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation

Breathing of vapor or mist is possible. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure

central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), lung edema (fluid buildup in the lung tissue), damage to the mouth, throat, and/or airways.

Target Organ Effects

No data

Developmental Information

Based on the available information, risk to the fetus from material exposure to this material cannot be assessed.

Cancer Information

This product contains sulfuric acid. The International Agency for Research on Cancer (IARC) and the National Toxicology Program have listed strong-inorganic-acid mists containing sulfuric acid as causing cancer in humans.

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin contact, Eye contact, Ingestion.

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4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to Physicians

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

5. FIRE FIGHTING MEASURES

Flash Point

300.0 F (149.8 C)

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Explosive Limit
No data

Autoignition Temperature
No data

Hazardous Products of Combustion
May form: acid vapors, carbon dioxide and carbon monoxide, sulfur compounds.

Fire and Explosion Hazards
No special fire hazards are known to be associated with this product.

Extinguishing Media
water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions
Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece, operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating
Health - 3, Flammability - 1, Reactivity - 2, Specific Hazard - Water reactive

6. ACCIDENTAL RELEASE MEASURES

Small Spill
Cover with soda ash. Mix and scoop into a beaker of water.

Large Spill
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. For good environmental management practices, prevent run-off to sewers, streams and other bodies of water. Stop spill at the source. Cover sewer grates and dike the spill. Absorb spilled material on to absorbents. Shovel materials into
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container. Close container tightly and dispose of properly.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection

Wear resistant gloves (consult your safety equipment supplier). To prevent skin contact, wear impervious clothing and boots.

Respiratory Protections

If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Exposure Guidelines

Component

~~XXXXXXXXXX~~

>OXYGEN DIOXIDE SULFURIC ACID (27176-87-9)

to exposure limits established

SULFURIC ACID (7664-93-9)

>MSHA PEL 1.000 mg/m3 - TWA

>MSHA VPRL 1.000 mg/m3 - TWA

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ACGIH TLV 1.000 mg/m3 - TWA
ACGIH TLV 3.000 mg/m3 - STEL

BENZENE, C18-18 ALKYL DERIVATIVES (68648-27-3)
No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point
(for product) > 572.0 F (300.0 C) @ 760 mmHg

Vapor Pressure
No data

Specific Vapor Density
Not applicable

Specific Gravity
1.061 @ 77.00 F

Liquid Density
9.838 lbs/gal @ 77.00 F
1.061 kg/l @ 25.00 C

Percent Volatiles
No data

Evaporation Rate
Not applicable

Appearance
VISCIOUS

State
LIQUID

Physical Form
HOMOGENEOUS SOLUTION

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Color
CLEAR, BROWN COLOR

Odor
PUNGENT

pH
< 2.0

Freezing Point
21.0 F (-6.1 C)

Solubility in Water
SOLUBLE

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.

Hazardous Decomposition
May form: carbon dioxide and carbon monoxide, sulfur compounds.

Chemical Stability
Stable.

Incompatibility
Avoid contact with: reducing agents, strong alkalis, strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

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12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Destroy by liquid incineration. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

ALKYL SULFONIC ACIDS, LIQUID, 8, UN2586, III

Container/Mode:

55 GAL DRUM/TRUCK PACKAGES

MS Component:

Hone

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

1000	DODECYLHEXAMERSULFONIC ACID
50000	SULFURIC ACID

Other Transportation Information

The DOT Transport Information may vary with the container and mode of shipment.

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

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CALSCOTT DAE-99

CERCLA RQ - 40 CFR 302.4(a)

Component	RQ (lbs)
DODECYLBENZENESULFONIC ACID	1000
SULFURIC ACID	1000

SARA 302 Components - 40 CFR 355 Appendix A
 Section 302 Component(s)

	TPQ (lbs)	RQ (lbs)
SULFURIC ACID	1000	1000

Section 311/312 Hazard Class - 40 CFR 170.2

Immediate(X) Delayed(X) Fire() Reactive() Sudden Release of Pressure()

SARA 313 Components - 40 CFR 372.65
 Section 313 Component(s)

	CAS Number	%
SULFURIC ACID (acid aerosols)	7664-93-9	1.50

OSHA Process Safety Management 29 CFR 1910
 None listed

EPA Accidental Release Prevention 40 CFR 68
 None listed

International Regulations

Inventory Status

- AICS (AUSTRALIA) The intentional ingredients of this product are listed.
- DEL (CANADA) The intentional ingredients of this product are listed.
- HCL (SOUTH KOREA) The intentional ingredients of this product are listed.
- EUROPE (EUROPE) The intentional ingredients of this product are listed.
- HCNS (JAPAN) The intentional ingredients of this product are listed.
- IECSC (CHINA) The intentional ingredients of this product are listed.
- PHILIPPINES (PHILIPPINES) The intentional ingredients of this product are listed.

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State and Local Regulations

California Proposition 65
None

New Jersey HX Label Information
DODECYLBENZENE SULFONIC ACID
SULFURIC ACID

27176-87-0
7664-93-9

Pennsylvania HX Label Information
BENZENESULFONIC ACID, DODECYL-
SULFURIC ACID

27176-87-0
7664-93-9

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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