



2744 East Kemper Road • Cincinnati, OH 45241

## MATERIAL SAFETY DATA SHEET

www.pilotchemical.com • 1-800-70-PILOT

## CALSOFT® LAS-99

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CALSOFT® LAS-99  
Company Address: 2744 East Kemper Road  
Cincinnati, Ohio 45241  
Emergency Telephone Number: Chemtrec 1-800-424-9300  
Pilot Chemical Corporate Office 1-513-326-0600

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	OSHA PEL
Benzenesulfonic acid, C10-16-alkyl derivatives	68584-22-5	97	-
Benzene, C10-16-alkyl derivatives	68648-87-3	1	-
Sulfuric acid	7664-93-9	1	TWA: 1 mg/m <sup>3</sup>
Sulfur dioxide	7446-09-5	1	TWA: 2 ppm TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup> STEL: 5 ppm

## 3. HAZARD INFORMATION

**Emergency Overview** Corrosive.

**Potential Health Effects**

Eyes Avoid contact with eyes.  
Skin Irritating to skin.  
Inhalation May cause irritation of respiratory tract.  
Ingestion Harmful if swallowed.

**Chronic Effects** No information available.

## 4. FIRST AID MEASURES

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**Skin Contact** Wash off immediately with soap and water removing contaminated clothes and shoes.  
**Inhalation** Move to fresh air.  
**Ingestion** Harmful if swallowed. Consult a physician if necessary.

## 5. FIRE FIGHTING MEASURES

**Flammable Properties** No information available.  
**Flammable Limits** Not Determined.  
**Hazardous Combustion Products** Not available.

**FIRE FIGHTING INSTRUCTIONS:**

**Method** Water mist may be used to cool closed containers.  
**Suitable Extinguishing Media** Dry chemical.  
**Unusual Fire & Explosive Hazards** None.

## 6. ACCIDENTAL RELEASE MEASURES

**Small Spill** Recover all usable material. Soak up balance with sand or dirt.

**Large Spill** In case of a large spill by truck use small spill procedure and a vacuum truck. Call CHEMTREC at 1-800-424-9300.

## 7. HANDLING AND STORAGE

**Handling** Handle in accordance with good industrial hygiene and safety practice.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Eye/face Protection** Tightly fitting safety goggles.

**Skin Protection** Long sleeved clothing.

**Respiratory Protection** In case of mist, spray or aerosol exposure, wear suitable personal respiratory protection and protective suit.

Component	ACGIH TLV	OSHA PEL	OSHA PEL (Ceiling)	OSHA PEL - Skin Notations
Sulfuric acid	TWA: 0.2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>		
Sulfur dioxide	TWA: 2 ppm STEL: 5 ppm	TWA: 2 ppm TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup> STEL: 5 ppm		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point/Range** >572°C

**Vapor Pressure** No data available

**% Volatile by Weight** < 0.5

**Water Solubility** Soluble in water

**Specific Gravity** 1.06

**pH** 2

**Odor** Unpleasant sulfide or sulfur dioxide odor.

**Appearance** Hazy brown liquid

**Physical State** Liquid

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions

**Incompatible Materials** Strong bases.

**Conditions to Avoid** Heat, flames and sparks

**Hazardous Decomposition Products** None under normal use

**Hazardous Polymerization** No information available

**11. TOXICOLOGICAL INFORMATION**

Component	LD50 Oral	LC50 Inhalation	LD50 Dermal
Benzenesulfonic acid, C10-16-alkyl derivatives	530 mg/kg ( Rat )		530 mg/kg ( Rat )
Benzene, C10-16-alkyl derivatives	5000 mg/kg ( Rat )		10200 mg/kg ( Rabbit ) 2000 mg/kg ( Rat )
Sulfuric acid	2140 mg/kg ( Rat )		

<b>Eyes</b>	None.
<b>Skin</b>	Skin Irritation.
<b>Ingestion</b>	Unknown.
<b>Inhalation</b>	Unknown.
<b>Chronic Toxicity</b>	No information available.
<b>Carcinogenicity</b>	Product is not listed.
<b>Hazard Type</b>	Skin/Eye Irritant.

**12. ECOLOGICAL INFORMATION**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sulfuric acid				EC50 = 29 mg/L 24 h

<b>Ecotoxicity effects</b>	No information available
<b>Chemical Fate</b>	Unknown

**13. DISPOSAL CONSIDERATIONS**

<b>Waste Disposal Method</b>	Dispose of contents/container in accordance with local regulation
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**14. TRANSPORTATION INFORMATION****DOT**

Proper Shipping Name	Aryl sulfonic acids, liquid
Hazard Class	8
UN-No	UN2586
Packing Group	III
Description	Aryl sulfonic acids, liquid,8,UN2586,PG III

**ICAO**

UN-No	UN2586
Proper Shipping Name	Arylsulphonic acids, liquid
Hazard Class	8
Packing Group	III
Description	Arylsulphonic acids, liquid,8,UN2586,PG III

**IATA**

UN-No	UN2586
Proper Shipping Name	Arylsulphonic acids, liquid
Hazard Class	8
Packing Group	III
ERG Code	8L
Description	UN2586,Arylsulphonic acids, liquid,8,PG III

**IMDG/IMO**

Proper Shipping Name	Arylsulphonic acids, liquid
Hazard Class	8
UN-No	UN2586
Packing Group	III
EmS No.	F-A, S-B

**RID**

Proper Shipping Name	Arylsulphonic acids, liquid
Hazard Class	8
UN-No	UN2586
Packing Group	III
ADR/RID-Labels	8

**ADR**

Proper Shipping Name	Arylsulphonic acids, liquid
Hazard Class	8
UN-No	UN2586
Packing Group	III

**15. REGULATORY INFORMATION**
**International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Benzenesulfonic acid, C10-16-alkyl derivatives	Present	X	-	271-528-9	-	X	X	KE-02595	X	X
Benzene, C10-16-alkyl derivatives	Present	X	-	272-008-4	-	X	X	KE-02157	X	X
Sulfuric acid	Present	X	-	231-639-5	-	X	X	KE-32570	X	X
Sulfur dioxide	Present	X	-	231-195-2	-	X	X	KE-32567	X	X

**USA**
**Federal Regulations**
**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**State Regulations**
**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**16. OTHER INFORMATION**

**Revision Date** 04/21/2008

**Prepared By** Thomas A. Fabré

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.