

This SDS complies with the US OSHA HCS 2012.

## 1. Product and Company Identification

**Product Code:** 0003510  
**Product Name:** MUCOSOL  
**Company Name:** CalibreScientific US, Inc.  
1311 SE Cardinal Ct Suite 170  
Vancouver, WA 98683  
**Phone Number:** 1 (360)260-2779  
**Web site address:** Alphatecsystems.com  
**Email address:** Regulatory@calibrescientific.com  
**Emergency Contact:** INFOTRAC  
International 00-1- (352)323-3500  
**Information:** North America 1 (800)535-5053  
**Intended Use:** For Laboratory Use Only  
**Product List** MUCOSOL, Product Code Also Applies To: 0003510.

## 2. Hazards Identification

**Skin Corrosion/Irritation, Category 3****Serious Eye Damage/Eye Irritation, Category 2****GHS Signal Word:** Warning**GHS Hazard Phrases:** H316 - Causes mild skin irritation.  
H319 - Causes serious eye irritation.**GHS Precautionary Phrases:** P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.**GHS Response Phrases:** P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P337+313 - If eye irritation persists, get medical advice/attention.**GHS Storage and Disposal Phrases:** No phrases apply.**Inhalation:** Causes respiratory tract irritation.**Skin Contact:** May be harmful if absorbed through the skin. Causes skin irritation.**Eye Contact:** Causes eye irritation.**Ingestion:** May cause irritation of the digestive tract. Harmful if swallowed. May cause central nervous system depression.

## 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
7558-79-4	Sodium phosphate, Dibasic {Phosphoric acid, disodium salt; Disodium, hydrogen phosphate}	No Data.
3483-12-3	Threitol, 1,4-dithio- {(R*,R*)-1,4-Dimercaptobutane-2,3-diol}	1000. -10000. PPM
7647-01-0	Hydrochloric acid {Hydrogen chloride}	0.72 -0.76 %

## 4. First Aid Measures

### Emergency and First Aid

#### Procedures:

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. If inhaled, remove to fresh air. Get medical aid.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.
<b>In Case of Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. Get medical aid if irritation or symptoms occur. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Note to Physician:</b>	Treat symptomatically and supportively.

## 5. Fire Fighting Measures

<b>Flash Point:</b>	No data.
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or appropriate foam.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
<b>Flammable Properties and Hazards:</b>	No data available.
<b>Hazardous Combustion Products:</b>	No data available.

## 6. Accidental Release Measures

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment. Clean up spills immediately, observing precautions in the Protective Equipment section. Approach spill from upwind.
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## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep container tightly closed. Avoid use in confined spaces.
<b>Precautions To Be Taken in Storing:</b>	Store in a cool, dry place. Storage under a nitrogen blanket has been recommended. Store in air tight containers. Refrigerate upon arrival below 4°C/39°F. Supplier recommends temperatures below -20°C for long-term storage.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7558-79-4	Sodium phosphate, Dibasic {Phosphoric acid, disodium salt; Disodium, hydrogen phosphate}	No data.	No data.	No data.
3483-12-3	Threitol, 1,4-dithio- {(R*,R*)-1,4-Dimercaptobutane-2,3-diol }	No data.	No data.	No data.
7647-01-0	Hydrochloric acid {Hydrogen chloride}	CEIL: 5 ppm	CEIL: 2 ppm)	No data.
<b>Respiratory Equipment (Specify Type):</b>		Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
<b>Eye Protection:</b>		Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
<b>Protective Gloves:</b>		Wear appropriate protective gloves to prevent skin exposure.		
<b>Other Protective Clothing:</b>		Wear appropriate protective clothing to prevent skin exposure.		
<b>Engineering Controls (Ventilation etc.):</b>		Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.		

## 9. Physical and Chemical Properties

Physical States:	[ ] Gas	[ X ] Liquid	[ ] Solid
Appearance and Odor:	Colorless/Clear. sulfurous odor.		
pH:	No data.		
Melting Point:	No data.		
Boiling Point:	No data. / 0.0 mm Hg		
Flash Point:	No data.		
Evaporation Rate:	No data.		
Flammability (solid, gas):	No data available.		
Explosive Limits:	LEL: No data.	UEL: No data.	
Vapor Pressure:	No data.		
Vapor Density (vs. Air=1):	No data.		
Specific Gravity (Water=1):	~ 1.00		
Solubility in Water:	No data.		
Saturated Vapor Concentration:	No data.		
Octanol/Water Partition Coefficient:	No data.		
Autoignition Pt:	No data.		
Decomposition Temperature:	No data.		
Viscosity:	No data.		

**10. Stability and Reactivity**

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid -** dust generation, Exposure to moist air or water, Light, Exposure to air.

**Instability:**

**Incompatibility - Materials To** Strong oxidizing agents, Strong acids.

**Avoid:**

**Hazardous Decomposition or** oxides of phosphorus, sodium oxide. Carbon monoxide, oxides of sulfur.

**Byproducts:**

**Possibility of Hazardous** Will occur [ ] Will not occur [ X ]

**Reactions:**

**Conditions To Avoid -** No data available.

**Hazardous Reactions:**

**11. Toxicological Information**

**Toxicological Information:** Epidemiology: No information available.  
Teratogenicity: No information available.  
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: No information found.

**Carcinogenicity/Other** CAS# 7558-79-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 3483-12-3:  
**Information:** Not listed by ACGIH, IARC, NTP, or CA Prop 65.  
CAS# 27565-41-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

**12. Ecological Information**

**General Ecological** Environmental: No information available.  
**Information:** Physical: No information available.  
Other: Do not empty into drains.

**13. Disposal Considerations**

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

**14. Transport Information**

**GHS Classification:** Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation  
Serious Eye Damage/Eye Irritation, Category 2 - Warning! Causes serious eye irritation

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

## LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

UN Number:

Hazard Class:

TDG Classification:

## 15. Regulatory Information

## EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7558-79-4	Sodium phosphate, Dibasic {Phosphoric acid, disodium salt; Disodium, hydrogen phosphate}	No	Yes NA	No
3483-12-3	Threitol, 1,4-dithio- {(R*,R*)-1,4-Dimercaptobutane-2,3-diol}	No	No	No
7647-01-0	Hydrochloric acid {Hydrogen chloride}	Yes 500 LB	Yes NA	Yes

## CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists

7558-79-4	Sodium phosphate, Dibasic {Phosphoric acid, disodium salt; Disodium, hydrogen phosphate}	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - E
3483-12-3	Threitol, 1,4-dithio- {(R*,R*)-1,4-Dimercaptobutane-2,3-diol}	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No
7647-01-0	Hydrochloric acid {Hydrogen chloride}	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: Yes - 1012; PA HSL: Yes - E

## 16. Other Information

Revision Date: 03/21/2025

Previous revision:

12/04/2018

Preparer Name: A. Frontella

Additional Information About This Product: No data available.

Document &amp; Change Control Number SDS0169.F.

Company Policy or

Disclaimer:

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.