






# Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	2	Fire Hazard	1	Reactivity	0	<div></div> <div>See Section 15.</div>
Health Hazard	2							
Fire Hazard	1							
Reactivity	0							

## Section 1. Chemical Product and Company Identification

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<b>Common Name/ Trade Name</b>	<b>Hyoscyamine sulfate</b>	<b>Catalog Number(s).</b>	YY1108, HY136
<b>Manufacturer</b>	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	<b>CAS#</b>	6835-16-1
<b>Commercial Name(s)</b>	Not available.	<b>RTECS</b>	YM6107000
<b>Synonym</b>	alpha - (Hydroxymethyl) benzeneacetic acid 8-methyl-8-azabicyclo[3,2,1]oct-3-yl ester sulfate	<b>TSCA</b>	TSCA 8(b) inventory: No products were found.
<b>Chemical Name</b>	Not available.	<b>CI#</b>	Not available.
<b>Chemical Family</b>	Not available.	<b>IN CASE OF EMERGENCY</b> <a href="tel:800-424-9300">CHEMTREC (24hr) 800-424-9300</a>  CALL (310) 516-8000	
<b>Chemical Formula</b>	(C17H23NO3)2.H2SO4.2H2O		
<b>Supplier</b>	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

## Section 2. Composition and Information on Ingredients

		Exposure Limits			
Name	CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) Hyoscyamine sulfate	6835-16-1				100

<b>Toxicological Data on Ingredients</b>	<b>Hyoscyamine sulfate</b> LD50: Not available. LC50: Not available.
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## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Severe over-exposure can result in death.
<b>Potential Chronic Health Effects</b>	<b>CARCINOGENIC EFFECTS:</b> Not available. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
<b>Serious Skin Contact</b>	Not available.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Serious Inhalation</b>	Not available.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Serious Ingestion</b>	Not available.

**Section 5. Fire and Explosion Data**

<b>Flammability of the Product</b>	May be combustible at high temperature.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Flash Points</b>	Not available.
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...), sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> ...).
<b>Fire Hazards in Presence of Various Substances</b>	Slightly flammable to flammable in presence of heat.
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
<b>Special Remarks on Fire Hazards</b>	Not available.
<b>Special Remarks on Explosion Hazards</b>	Not available.

**Section 6. Accidental Release Measures**

<b>Small Spill</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
<b>Large Spill</b>	Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid.	Odor	Not available.
Molecular Weight	712.85 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Not available.
Boiling Point	Decomposes.		
Melting Point	206°C (402.8°F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Soluble in cold water.		

Section 10. Stability and Reactivity Data


Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat
Incompatibility with various substances	Not available.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Not available.

<b>Hyoscyamine sulfate</b>		<b>Page Number: 4</b>
<b>Special Remarks on Corrosivity</b>	Not available.	
<b>Polymerization</b>	Will not occur.	

<b>Section 11. Toxicological Information</b>		
<b>Routes of Entry</b>	Inhalation. Ingestion.	
<b>Toxicity to Animals</b>	LD50: Not available. LC50: Not available.	
<b>Chronic Effects on Humans</b>	Not available.	
<b>Other Toxic Effects on Humans</b>	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.	
<b>Special Remarks on Toxicity to Animals</b>	Not available.	
<b>Special Remarks on Chronic Effects on Humans</b>	Not available.	
<b>Special Remarks on other Toxic Effects on Humans</b>	May cause skin, eye, and respiratory tract irritation. Harmful if swallowed. May cause constipation. May affect behavior/central nervous system, respiratory system (dyspnea), cardiovascular system, vision. An anticholinergic agent. It can cause blurred vision, photophobia, vasodilation, rapid and weak pulse, tachycardia, hyperpyrexia, excitement, muscular incoordination, convulsions, agitation, restlessness, disturbed gait and speech, hallucinations, delirium, and pupil dilation, bradycardia.	

<b>Section 12. Ecological Information</b>		
<b>Ecotoxicity</b>	Not available.	
<b>BOD5 and COD</b>	Not available.	
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
<b>Toxicity of the Products of Biodegradation</b>	The products of degradation are less toxic than the product itself.	
<b>Special Remarks on the Products of Biodegradation</b>	Not available.	

<b>Section 13. Disposal Considerations</b>		
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	

<b>Section 14. Transport Information</b>		
<b>DOT Classification</b>	CLASS 6.1: Poisonous material.	
<b>Identification</b>	UNNA: 1544 : Alkaloid salt, solid, n.o.s. (Hyoscyamine sulfate) PG: III	
<b>Special Provisions for Transport</b>	Not available.	
<b>DOT (Pictograms)</b>		

## Section 15. Other Regulatory Information and Pictograms

## Federal and State Regulations

No products were found.

## California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

## Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

## Other Classifications

**WHMIS (Canada)** CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).**DSCL (EEC)**

R25- Toxic if swallowed.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	E

## National Fire Protection Association (U.S.A.)

Health



Flammability

Reactivity

Specific hazard

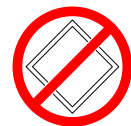
## WHMIS (Canada) (Pictograms)



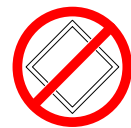
## DSCL (Europe) (Pictograms)



## TDG (Canada) (Pictograms)



## ADR (Europe) (Pictograms)



## Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Safety glasses.

**Section 16. Other Information****MSDS Code** H3398**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 10/6/2009.

Verified by Sonia Owen.  
Printed 10/9/2009.

CALL (310) 516-8000

**Notice to Reader**

*All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.*