



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
210	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chem	ical Product and Company Identification		Page Number: 1	
Common Name/ Trade Name	Clidinium Bromide	Catalog Number(s).	C3164	
		CAS#	3485-62-9	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	VD6125000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: No products were found.	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	3-((hydroxydiphenylacetyl)oxy)-1-methyl-, bromide; IN CASE C		EMERGENCY (24hr) 800-424-9300	
Chemical Name	Quinuclidinium, 3-hydroxy-1-methyl-, bromide, benzilate			
Chemical Family	Chemical Family Not available.		CALL (310) 516-8000	
Chemical Formula	C22-H26-N-O3.Br			
Supplier	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/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Clidinium Bromide		3485-62-9				100
Toxicological Data on Ingredients	Clidinium Bromide: ORAL (LD50):	Acute: 492 mg/k	g [Rat].	T		

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Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of

inhalation.

Potential Chronic Health

Effects

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS**: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.	
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.	
Serious Skin Contact	Not available.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Not available.	
Ingestion	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.	
Serious Ingestion	Not available.	

Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.	
Auto-Ignition Temperature	Not available.	
Flash Points	Not available.	
Flammable Limits	Not available.	
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).	
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.	
Explosion Hazards in Presence of Various Substances	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.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	As with most organic solids, fire is possible at elevated temperatures	
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.	

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Section 6. Acci	dental Release Measures	
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal c spreading water on the contaminated surface and dispose of according to requirements.	5 ,
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finis on the contaminated surface and allow to evacuate through the sanitary system.	h cleaning by spreading water

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. Keep away from incompatibles such as oxidizing agents.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.	

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. Dust respirator is recommended when ventilation is inadequate and handling of material produces visible dust clouds. 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. (Powdered solid.)	Odor	Not available.
Molecular Weight	432.4 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Not available.
Boiling Point	Not available.		
Melting Point	236°C (456.8°F) - 243 C.		
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	Not available.		
Solubility	Not available.		

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Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Excess heat, incompatible materials, dust generation.	
Incompatibility with various substances	Reactive with oxidizing agents.	
Corrosivity	Not available.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information		
Routes of Entry	Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 492 mg/kg [Rat].	
Chronic Effects on Humans	Not available.	
Other Toxic Effects on Humans	Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans	Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: Dust may cause respiratory tract irritation. Ingestion: Harmful if swallowed. May cause upset stomach, dry mouth, heartburn, bloated feeling, taste changes, changes in appetite, constipation, difficulty urinating or fequent urination. May also affect behavior/nervous system, eyes, liver, heart. Other symptoms may include drowsiness, weakness or tiredness, excitement, sleepiness, shuffling walk, persistant fine tremor or inability to sit still, slow or difficult speech, jaw, neck, and back muscle spasms, eyes more sensitive to sunlight than ususal, blurred vision, dilated pupils, jaundice (yellowing of skin or eyes), irregular heartbeat, difficulty breathing, severe skin rash. Medical Conditions Aggravated by Exposure: Allergy to Clidinium Bromide; high blood pressure; seizures; Parkinson's disease; asthma; glaucoma, prostate problems; lung, thyroid, kidney, heart, or liver disease; medications for depression, thyroid, high blood pressure, seizures, Parkinson's disease, asthma, colds or allergies; other medications such as oral contraceptives, muscle relaxants, probenecid, propoxyphene, propranolol, rifampin, sedatives, theophylline, tranquilizers, sleeping pills, valproic acid, or vitamins, prozac, ketoconazole, tagamet, digoxin, antihistamines.	

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

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Special Remarks on the Products of Biodegradation	Not available.	

Section 13. Disposal Considerations

Vaste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Section 14. Transport Information		
DOT Classification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	
DOT (Pictograms)		

Section 15. Other Regulatory Information and Pictograms

Federal and State No products were found. Regulations

California prop. 65: This product contains the following ingredients for which the State of California has found Proposition 65 to cause cancer which would require a warning under the statute: No products were found. Warnings 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). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). WHMIS (Canada) DSCL (EEC) R22- Harmful if swallowed. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.)

California

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	(E)

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

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



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TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.



Section 16. Other Information MSDS Code C0194 References Not available. Other Special Use: Drug. Clinidium bromide is a quaternary ammonium compound with anticholinergic activity used in treatment of Considerations peptic ulcer disease and other gastrointestinal disorders. Validated by Sonia Owen on 8/11/2006. Verified by Sonia Owen. Printed 9/11/2006.

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.