(+)-Muscarine (iodide salt)

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Printed: 02/04/2011 Revision: 02/03/2011

Date Created: 02/03/2011

1. P	roduct and Company Identification
Product Code:	10230
Product Name:	(+)-Muscarine (iodide salt)
Manufacturer Information	
Company Name:	Cayman Chemical Company
Emergency Contact:	Cayman Chemical Company (800)364-9897
Information:	Cayman Chemical Company (734)971-3335
Synonyms:	2,5-anhydro-1,4,6-trideoxy-6-(trimethylammonio)-D-ribo-hexitol, iodide;
	2. Hazards Identification
Emergency Overview:	Highly Toxic.
Route(s) of Entry:	Avoid contact and inhalation. Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection
Potential Health Effects (Acute and Chronic):	
	Material may be irritating to the mucous membranes and upper respiratory tract.
	May cause eye, skin, or respiratory system irritation.
LD 50 / LC 50:	Please refer to Section 11.
Signs and Symptoms Of Exposure:	To the best of our knowledge, the toxicological properties have not been thoroughly investigat
Medical Conditions Generally Aggravated By Exposure:	No data available.
Exposure:	No data available. mposition/Information on Ingredients
Exposure: 3. COr Hazardous Components (Chemical Name)	mposition/Information on Ingredients CAS # Concentration EC#
Exposure: 3. Cor	mposition/Information on Ingredients         CAS #       Concentration       EC#         24570-49-8       100.0 %       NA
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## MATERIAL SAFETY DATA SHEET

(+)-Muscarine (iodide salt)

Flammable Properties and Hazards:	No data available	2.		
Hazardous Combustion Products:	No data available	2.		
Suitable Extinguishing Media:	Use alcohol-resis	stant foam, carbon die	oxide, water, or dry chemical spray.	
	Use water spray	to cool fire-exposed of	containers.	
Unsuitable Extinguishing Media:	A solid water stre	eam may be inefficie	nt.	
6	. Accidenta	al Release M	easures	
Steps To Be Taken In Case Material Is Released Or Spilled:	Avoid raising an As conditions wa and appropriate p	arrant, wear a NIOSH	provide adequate ventilation. approved self-contained breathing appar- ubber boots, safety goggles, and heavy ru r for disposal.	-
	7. Hand	ling and Sto	rage	
Hazard Label Information:	Avoid contact wi Wash thoroughly	•	Do not reuse this container. Use with ad	equate ventilation
Precautions To Be Taken in Handling:	-	(dust, vapor, mist, ga l or repeated exposure		
Precautions To Be Taken in Storing:	Keep tightly close Store at correct to			
8. Ex	posure Cor	ntrols/Person	al Protection	
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. (+)-Muscarine (iodide salt)	24570-49-8	No data.	No data.	No data.
Protective Equipment Summary - Hazard Label Information:	•	nical-resistant gloves shower in work area	Eye wash station in work area Lab c Vent Hood	oat Safety
Respiratory Equipment (Specify Type):		d respirator, as condit		
Eye Protection:	Safety glasses			
Protective Gloves:		nical-resistant gloves		
Other Protective Clothing:	Lab coat	6		
Engineering Controls (Ventilation etc.):	Use process encl levels below reco		ventilation, or other engineering controls	to control airborn

 Work/Hygienic/Maintenance Practices:
 Do not take internally.

 Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Wash thoroughly after handling.

## 9. Physical and Chemical Properties

	,	
Physical States:	[ ] Gas [ ] Liquid [ X ] Solid	
Melting Point:	No data.	
Boiling Point:	No data.	
Autoignition Pt:	No data.	
Flash Pt:	No data.	
Specific Gravity (Water = 1):	No data.	
Vapor Pressure (vs. Air or mm Hg):	No data.	
Vapor Density (vs. Air = 1):	No data.	
Evaporation Rate (vs Butyl Acetate=1):	No data.	

## MATERIAL SAFETY DATA SHEET

(+)-Muscarine (iodide salt)

Solubility in Water:	No data.
Percent Volatile:	No data.
Formula:	C9H20NO2 • I
Molecular Weight:	301.20
Appearance and Odor:	A crystalline solid
	10. Stability and Reactivity
Stability:	Unstable [ ] Stable [ X ]
Conditions To Avoid - Instability:	No data available.
Incompatibility - Materials To Avoid:	strong oxidizing agents
Hazardous Decomposition Or Byproducts:	carbon dioxide carbon monoxide hydrogen iodide nitrogen oxides
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [ X ]
Conditions To Avoid - Hazardous Reactions:	No data available.
	11. Toxicological Information
	The toxicological effects of this product have not been thoroughly studied.
Chronic Toxicological Effects:	<ul> <li>(+)-Muscarine chloride - Toxicity Data: Intravenous LD50 (mouse): 0.23 mg/kg;*</li> <li>* The toxicity data used to prepare this MSDS is based on a closely related salt, (+)-Muscarine chloride.</li> </ul>
	It is expected that the toxicity of (+)-Muscarine (iodide salt) will be very similar. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. (+)-Muscarine chloride RTECS Number: QG3500000
Carcinogenicity/Other Information:	No data available.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No
• •	12. Ecological Information
	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
	13. Disposal Considerations
Waste Disposal Method:	Dispose in accordance with local, state, and federal regulations.
	14. Transport Information
LAND TRANSPORT (US DOT)	
DOT Proper Shipping Name	Toxic solid, organic, n.o.s. ((+)-Muscarine (iodide salt))
DOT Hazard Class:	6.1
DOT Hazard Label:	POISON
UN/NA Number:	2811
	-
Packing Group:	II
Packing Group: LAND TRANSPORT (European ADR/RID)	11

Multi-region format

## MATERIAL SAFETY DATA SHEET

(+)-Muscarine (iodide salt)

UN Number:2811Packing Group:IIIATA Classification:6.1Additional Transport Information:TransportDescription15. REuropean Community Hazard Symbol codesT+: Very TEuropean Community Risk and Safety PhrasesR26/27/28Very toxic by inhalation, in contact with ski S24/25S28- After contact with skin, wash immediately with S36/37/39S28- After contact with skin, wash immediately with S36/37/39S45- In case of accident or if you feel unwell, seek rUS EPA SARA Title IIIHazardous Components (Chemical Name)CASCAS2457I. (+)-Muscarine (iodide salt)2457I. (+)-Muscarine (iodide salt)CASI. (+)-Muscarine (iodide salt)CASI. (+)-Muscarine (iodide salt)CASI. (+)-Muscarine (iodide salt)CAS	n accordance egulato `oxic `a and if swall plenty of soa eye/face pro- edical advice # See D-49-8 No # EP	swallowed. of soap-suds ce protection advice imme Sec.302 No EPA CAA HAP, OD	h local, state nforma s. b. cdiately (show (EHS) 1 C () 1	w the label whenever Sec.304 RQ No EPA CWA NPDES No	possible.) <b>Sec.313 (TRI)</b> No	Sec.110 No HPV/LPV
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R26/27/28       - Very toxic by inhalation, in contact with ski         S24/25       - Avoid contact with skin, wash immediately with         S36/37/39       - Wear suitable protective clothing, gloves and         S45       - In case of accident or if you feel unwell, seek r         JS EPA SARA Title III       Image: Components (Chemical Name)         CAS       (+)-Muscarine (iodide salt)         2457       JS EPA CAA, CWA, TSCA         Image: Components (Chemical Name)       CAS         (+)-Muscarine (iodide salt)       2457         JS EPA CAA, CWA, TSCA       Company Policy or Disclaimer         For research use only, not for human or veterinary use.       DISCLAIMER: This information is believed to be accurate merchantability or any other warranty, express or implied, make their own investigations to determine the suitability or any other warranty.	plenty of soa eye/face pro edical advice # Se D-49-8 No # EP D-49-8 HA	of soap-suds ce protection advice imme Sec.302 ( No EPA CAA HAP, OD	n. diately (show (EHS) {   	Sec.304 RQ No EPA CWA NPDES No	Sec.313 (TRI) No EPA TSCA	No
S24/25       - Avoid contact with skin and eyes.         S28       - After contact with skin, wash immediately with         S36/37/39       - Wear suitable protective clothing, gloves and         S45       - In case of accident or if you feel unwell, seek r         JS EPA SARA Title III	plenty of soa eye/face pro edical advice # Se D-49-8 No # EP D-49-8 HA	of soap-suds ce protection advice imme Sec.302 ( No EPA CAA HAP, OD	n. diately (show (EHS) {   	Sec.304 RQ No EPA CWA NPDES No	Sec.313 (TRI) No EPA TSCA	No
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16. Company Policy or Disclaimer For research use only, not for human or veterinary use. DISCLAIMER: This information is believed to be accurate merchantability or any other warranty, express or implied, make their own investigations to determine the suitability					No	
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