

## SAFETY DATA SHEET (+)-Pilocarpine-d3 (hydrochloride)

		Identification of the Substance/Mixture and of t	the Company/Undertaking					
1	Product Code:	29078	<u> </u>					
••	Product Name:	(+)-Pilocarpine-d3 (hydrochloride)						
	Synonyms:	(3S,4R)-3-ethyldihydro-4-[(1-(methyl-d3)-1H-i	imidazol-5-vl)methvl]-2(3H)-furanone.					
	- <b>,</b> ,	monohydrochloride;						
2	Relevant identified uses of the substance or mixture and uses advised against:							
-	Relevant identified uses: For research use only, not for human or veterinary use.							
.3	Details of the Supplier of the Safety Data Sheet:							
	Company Name:	Cayman Chemical Company						
		1180 E. Ellsworth Rd.						
		Ann Arbor, MI 48108						
	Web site address:	www.caymanchem.com						
	Information:	Cayman Chemical Company	+1 (734)971-3335					
.4	Emergency telephone nur	nber:						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identific	cation					
.1	Classification of the Subs	tance or Mixture:						
-								
	Acute Toxicity: Inhalation, Category 2							
	-							
2	Acute Toxicity: Oral, Ca							
2.2	-							
2.2	Acute Toxicity: Oral, Ca							
.2	Acute Toxicity: Oral, Ca							
.2	Acute Toxicity: Oral, Ca							
.2	Acute Toxicity: Oral, Ca	tegory 2						
.2	Acute Toxicity: Oral, Car Label Elements:							
.2	Acute Toxicity: Oral, Car Label Elements: GHS Signal Word:	tegory 2						
2.2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases:	tegory 2						
2	Acute Toxicity: Oral, Car Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed.	tegory 2 Danger						
.2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phra	tegory 2 Danger						
.2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phra	tegory 2 Danger ases: st/fume/gas/mist/vapors/spray}.						
2.2	Acute Toxicity: Oral, Car Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phra P260: Do not breathe {dust	tegory 2 Danger ases: st/fume/gas/mist/vapors/spray}. bughly after handling.						
2.2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phra P260: Do not breathe {dus P264: Wash {hands} thoro P284: Wear respiratory pr	tegory 2 Danger ses: st/fume/gas/mist/vapors/spray}. bughly after handling. rotection {}.						
2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phra P260: Do not breathe {dus P264: Wash {hands} thoro P284: Wear respiratory pr GHS Response Phrases	tegory 2 Danger ses: st/fume/gas/mist/vapors/spray}. bughly after handling. rotection {}.	or doctor/physician.					
.2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phra P260: Do not breathe {dus P264: Wash {hands} thoro P284: Wear respiratory pr GHS Response Phrases P301+310: IF SWALLOW	tegory 2 Danger ses: st/fume/gas/mist/vapors/spray}. bughly after handling. rotection {}. : ED: P310: Immediately call a POISON CENTER o						
.2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phra P260: Do not breathe {dus P264: Wash {hands} thoro P284: Wear respiratory pr GHS Response Phrases P301+310: IF SWALLOW P304+340: IF INHALED: I	tegory 2 Danger Bases: st/fume/gas/mist/vapors/spray}. bughly after handling. totection {}. : ED: P310: Immediately call a POISON CENTER o Remove victim to fresh air and keep at rest in a pos						
.2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phra P260: Do not breathe {dus P264: Wash {hands} thoro P284: Wear respiratory pr GHS Response Phrases P301+310: IF SWALLOW P304+340: IF INHALED: I	tegory 2 Danger ses: st/fume/gas/mist/vapors/spray}. bughly after handling. rotection {}. : ED: P310: Immediately call a POISON CENTER o						
.2	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H300: Fatal if swallowed. H330: Fatal if swallowed. H330: Fatal if inhaled. GHS Precautionary Phrases P260: Do not breathe {dus P264: Wash {hands} thoro P284: Wear respiratory pr GHS Response Phrases P301+310: IF SWALLOW P304+340: IF INHALED: I P320: Specific treatment i	tegory 2 Danger ases: st/fume/gas/mist/vapors/spray}. bughly after handling. otection {}. : ED: P310: Immediately call a POISON CENTER of Remove victim to fresh air and keep at rest in a post s urgent {see on this label}.						

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## SAFETY DATA SHEET (+)-Pilocarpine-d3 (hydrochloride)

May be harmful by skin absorption.         May cause eye, skin, or respiratory system initiation.         To the best of unknowledge, the toxicological properties have not been thoroughly investigate         CAS # / Hezardous Components (Chemical Name)/ Create toxicological properties have not been thoroughly investigate         CAS # / Hezardous Components (Chemical Name)/ Create toxicological properties have not been thoroughly investigate         CAS # / Hezardous Components (Chemical Name)/ Create toxicological properties have not been thoroughly investigate         CAS # / Hezardous Components (Chemical Name)/ Create toxicological properties have not been thoroughly investigate         CAS # / Hezardous Components (Chemical Name)/ Create toxicological properties have not been thoroughly investigate         Section 4. First Aid Measures:         In Case of Skin Contact:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Cotting. Get medical attention.         In Case of Skin Contact:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examin and tested by medical personnel.         In Case of Ingestion:       Wash out mouth with water provided person is conscious. Newer give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.         Suitable Extinguishing       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Media:         Quartificial Extinguishing:       Use alcohol-resistant foam, carbon dio	2.3 Adverse Human Health		se Human Health	Fatal if inhaledor swallowed.						
May cause eye, skin, or respiratory system irritation.         To the best of our knowledge, the toxicological properties have not been throughly investigate.         Ass #/       REACH Registration No.         NA       (+)-Pitocarpined3 (hydrochloridd)       100.0 %       NA       Acute Tox.(() 2: H300         Ass #/       REACH Registration No.       Section 4. First Aid Measures       Concentration       Concentration on close of the section on close or close of the section on close of the section on close of the section of close of the section on close or close of the section of of t		Effects and Symptoms:		Material may be irritating to the mucous membranes and upper respiratory tract.						
Section 3. Composition/Information on Ingredients         CAS # kazardous Components (Chemical Name// Concentration E C No/ No.       MB Classification No.         CAS # kazardous Components (Chemical Name// Concentration No.       MA Concentration MA Concentration Acute Tox.(0) 2: H330         Section 4. First Aid Measures         Ma Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Cost immediate wash skin with soap and plenty of water for at least 15 minutes. Remove contamina coloring. Get medical attention. If avmptoms occur. Wash clothing before reuse.       In Case of Eye Conte:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examit and tested by medical personne.         Materiation Materiation Materiation Materiation Do NOT Induce vomiting unless directed to do so by medical personne.         Section 5. Fire Fighting Measures         Materiation Materi										
Section 3. Composition/Information on Ingredients           CAS #/ RTECS #         Hazardous Components (Chemical Namey/ EEACH Registration No.         Concentration EC Index No.         Other Stassification EC Index No.           NA         (+)-Pilocarpined3 (hydrochloride)         100.0 %         NA         Acute Tox.(D) 2: H300 Acute Acute Acu							t been thoroughly investigated			
CAS # / RTECS #         Hazardous Components (Chemical Name)/ REACH Registration No.         Concentration         EC No./ EC Index No.         GHS Classification           NN         (+)-Plicarpine-d3 (hydrochloride)         100.0 %         NA         Acute Tox.(D) 2: H300 NA           Section 4. First Aid Measures         Section 4. First Aid Measures           11         Description of First Aid Measures:         In Case of Inhalation:         Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention.           In Case of Skin Contact:         Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamina clothing, Get medical attention if symptoms occur. Wash clothing before reuse.           In Case of Eye Contact:         Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examin and tested by medical personnel.           In Case of Ingestion:         Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Cet medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.           Suitable Extinguishing         Use autor spray to cool fire-exposed containers.           Unsuitable Extinguishing A solid water stream may be inefficient.           Media:         Use water spray to cool fire-exposed containers.           Unsuitable Extinguishing A solid water stream may be inefficient.           Hazards:         No data.			Sec	-	<b>.</b>	•				
NA.         (+)-Plicarpine-d3 (hydrochloride)         100.0 %         NA         Acute Tox.(D) 2: H300 Acute Tox.(D) 2: H300           Section 4. First Aid Measures           Maximum Case of Inhalation:         Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention.           In Case of Skin Contact:           Immediate medical attention if symptoms occur. Wash clothing before reuse.           In Case of Eye Contact:           Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examin and tested by medical personnel.           In Case of Eye Contact:           Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examin and tested by medical personnel.           In Case of Eye Contact:           Medical personnel.           In Case of Ingestion:           Wash out mouth with water provided person is conscious. Naver give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.           Section 5. Fire Fighting Measures           Suitable Extinguishing           No data.           Use water spray to col fire-exposed containers.           Unsuitable Extinguishing <t< th=""><th>CAS</th><th>#/</th><th>1</th><th></th><th>1</th><th>-</th><th>1</th></t<>	CAS	#/	1		1	-	1			
NA       NA       Acute Tox.(1) 2: H330         Section 4. First Aid Measures         11 Description of First Aid Measures:         In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention.         In Case of Skin Contact:       Immediately wash skin with scap and plenty of water for at least 15 minutes. Remove contaminate dothing. Get medical attention if symptoms occur. Wash clothing before reuse.         In Case of Eye Contact:       Hold eyeldis apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examine and tested by medical personnel.         In Case of Ingestion:       Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.         Section 5. Fire Fighting Measures         Section 5. Fire Fighting Measures         Section 5. Fire Fighting Measures         No data available.         Hazards:         No data available.         Hazards:         No data.         Section 6. Accidental Release Measures         Section 6. Accidental Release Measures         Section 6. Accidental Release Measures         Section 6. Accidental Releas	RTE	CS #	REACH Registra	tion No.		EC Index No.				
<ul> <li>1.1 Description of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention.</li> <li>In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamina clothing. Get medical attention if symptoms occur. Wash clothing before reuse.</li> <li>In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examin and tested by medical personnel.</li> <li>In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscicus person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.</li> <li>Section 5. Fire Fighting Measures</li> <li>Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: No data available.</li> <li>Flash Pt: No data. Explosive Limits: LEL: No data. Use valer spray to cool fire-dote the prevent contact with skin and eyes.</li> <li>Section 6. Accidental Release Measures</li> <li>Section 7. Avoid raising and breathing dust, and proved self-contained breathing apparatus, or respirat Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).</li> <li>Environmental Take steps to avoid release into the environment, if safe to do so. Precautions:&lt;</li></ul>	NA NA		(+)-Pilocarpine-d3 (h	nydrochloride)	100.0 %					
Measures:         In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention.         In Case of Skin Contact:       Immediate medical attention if symptoms occur. Wash clothing before reuse.         In Case of Skin Contact:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examine and tested by medical personnel.         In Case of Ingestion:       Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.         5.1       Suitable Extinguishing       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing A solid water stream may be inefficient.       Media:         5.2       Flammable Properties andNo data available.         Hazards:       No data         Explosive Limits:       LEL: No data.         Explosive Limits:       Do data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         5.3       Fire Fighting Instructions: As on any fire, wear a NIOSH approved self-contained breathing apparatus, or respirat Emergency Procedures: <t< td=""><td></td><td></td><td></td><td>Section 4. Fi</td><td>rst Aid Measu</td><td>ures</td><td></td></t<>				Section 4. Fi	rst Aid Measu	ures				
In Case of Inhalation:       Remove to fresh air, if not breathing, give artificial respiration or give oxygen by trained personn Get immediate medical attention.         In Case of Skin Contact:       Immediate medical attention.         In Case of Skin Contact:       Immediate medical attention.         In Case of Eye Contact:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contamina and tested by medical personnel.         In Case of Ingestion:       Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.         Section 5. Fire Fighting Measures         Suitable Extinguishing       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media:         Media:       No data available. Hazards: No data.         Flash Pt:       No data.         LEL: No data.       UEL: No data.         Softion 6.       Accidental Release Measures         Section 6.       Accidental Release Measures         Softion 7.       Avoid rations warrant, wear a NIOSH approved set efforting oppratus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         Section 6.       Accidental Release Measures         Section	4.1	Descri	ption of First Aid							
Get immediate medical attention.         In Case of Skin Contact:       Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamina clothing. Get medical attention if symptoms occur. Wash clothing before reuse.         In Case of Eye Contact:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examinand tested by medical personnel.         In Case of Ingestion:       Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.         Suitable Extinguishing       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Unsuitable Extinguishing       A solid water stream may be inefficient.         Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing A solid water stream may be inefficient.       Media:         Si       No data.         Explosive Limits:       LEL: No data.         Lazards:       No data.         Explosive Limits:       LEL: No data.         Si       No data.         Si       Fire Fighting Instructions; As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         Sa		Measu	ires:							
clothing. Get medical attention if symptoms occur. Wash clothing before reuse.         In Case of Eye Contact:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examinand tested by medical personnel.         In Case of Ingestion:       Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.         Section 5. Fire Fighting Measures         5.1       Suitable Extinguishing         Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing A solid water stream may be inefficient.         Media:       No data available.         Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         Linginition Pt:       No data.         S.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contain with skin and eyes.         Section 6. Accidental Release Measures         S.1       Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.         Protective Precautions:       As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or res		In Cas	e of Inhalation:			l respiration or gi	ve oxygen by trained personnel.			
and tested by medical personnel.         In Case of Ingestion:       Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.         Section 5. Fire Fighting Measures         S.1       Suitable Extinguishing         Wedia:       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing A solid water stream may be inefficient.       Media:         S.2       Flammable Properties andNo data available.         Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         LS.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         Section 6. Accidental Release Measures         S.1       Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.         Protective Precautions, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         S.2       Environmental         Take steps to avoid release into the environment, if safe to do so.         Precautions:       Sa         <		In Cas	e of Skin Contact:	-						
unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.  Section 5. Fire Fighting Measures Jusuitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Media: Use water spray to cool fire-exposed containers. Unsuitable Extinguishing A solid water stream may be inefficient. Media: Section 5. Fire Fighting Instructions: No data available. Hazards: No data available. Flash Pt: No data. Explosive Limits: LEL: No data. UEL: No data. Signification Pt: No data. Signifi		In Cas	e of Eye Contact:			ater for at least 1	5 minutes. Have eyes examined			
5.1       Suitable Extinguishing       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing       A solid water stream may be inefficient.         Media:       Media:         5.2       Flammable Properties andNo data available.         Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         Limits:       LEL: No data.         S.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         Section 6.       Accidental Release Measures         S.1       Protective Precautions,       Avoid raising and breathing dust, and provide adequate ventilation.         Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirat Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         S.2       Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:       S.3       Methods and Material For       Contain spill and collect, as appropriate.         Containment and CleaningTransfer to a chemical waste container for disposal in accordance with l	In Case of Ingestion:			unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by						
Media:       Use water spray to cool fire-exposed containers.         Unsuitable Extinguishing A solid water stream may be inefficient.         Media:         5.2       Flammable Properties andNo data available.         Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         LEX:       No data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         5.3       Forective Precautions,       Avoid raising and breathing dust, and provide adequate ventilation.         Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         5.2       Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Environment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.				Section 5. Fire	Fighting Mea	asures				
Unsuitable Extinguishing A solid water stream may be inefficient. Media: 5.2 Flammable Properties andNo data available. Hazards: No data available. Flash Pt: No data. Explosive Limits: LEL: No data. UEL: No data. Autoignition Pt: No data. 5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. 5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. 5.4 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirat Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). 5.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 5.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up:	5.1	Suitab	le Extinguishing	Use alcohol-resistant foam, o	arbon dioxide, wate	r, or dry chemica	l spray.			
Media:         5.2       Flammable Properties andNo data available.         Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         Jutoignition Pt:       No data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         Section 6.       Accidental Release Measures         6.1       Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.         Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirat Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         8.2       Environmental Take steps to avoid release into the environment, if safe to do so.         Precautions:       Same to a chemical waste container for disposal in accordance with local regulations.         Up:       Up:       Line contains pill and collect, as appropriate.		Media:	:	Use water spray to cool fire-e	exposed containers.					
Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         Autoignition Pt:       No data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         5.3       Forective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.         Protective Equipment and Emergency Procedures:       Avoid raising and breathing dust, and provide adequate ventilation.         Precautions:       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Take steps to a collect, as appropriate.         Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.         Up:       Image: Proceed Proceed Proceed Proceed Precedures										
Flash Pt:       No data.         Explosive Limits:       LEL: No data.       UEL: No data.         Autoignition Pt:       No data.       UEL: No data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         5.3       Protective Precautions, Protective Equipment and Emergency Procedures:       Avoid raising and breathing dust, and provide adequate ventilation.         Precautions:       As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         6.2       Environmental Precautions:       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Contain spill and collect, as appropriate.       Containce with local regulations.         Up:       Up:       Up:	5.2		-	<b>d</b> No data available.						
Explosive Limits:       LEL: No data.       UEL: No data.         Autoignition Pt:       No data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         5.3       Section 6. Accidental Release Measures         6.1       Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.         Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         6.2       Environmental Take steps to avoid release into the environment, if safe to do so.         Precautions:       6.3         6.3       Methods and Material For Contain spill and collect, as appropriate.         Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.         Up:				No data available.						
Autoignition Pt:       No data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.         5.3       Section 6. Accidental Release Measures         6.1       Protective Precautions, Protective Equipment and Emergency Procedures:       Avoid raising and breathing dust, and provide adequate ventilation.         Protective Equipment and Emergency Procedures:       As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).         6.2       Environmental Procedures:       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Contain spill and collect, as appropriate.       Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.         Up:		Flash	Pt:	No data.						
<ul> <li>Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.</li> <li>Section 6. Accidental Release Measures</li> <li>Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).</li> <li>Environmental Take steps to avoid release into the environment, if safe to do so. Precautions:</li> <li>Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up:</li> </ul>		Explos	sive Limits:	LEL: No data.	UEL: No da	ata.				
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<ul> <li>Precautions:</li> <li>6.3 Methods and Material For Contain spill and collect, as appropriate.</li> <li>Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.</li> <li>Up:</li> </ul>										
<b>Containment and Cleaning</b> Transfer to a chemical waste container for disposal in accordance with local regulations. <b>Up:</b>	6.2			Take steps to avoid release	into the environmen	t, if safe to do so.				
Up:	6.3	Methods and Material For Contain spill and collect, as appropriate.								
Multi-ragion fo			inment and Cleanir	ngTransfer to a chemical waste	e container for dispo	sal in accordance	e with local regulations.			
							Multi-region form			



## SAFETY DATA SHEET (+)-Pilocarpine-d3 (hydrochloride)

Revision: 11/03/2019

		Section 7. Handling and Storage				
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	n Handling: Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taken	aken Keep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Section	on 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	evels below recommended exposure limits.				
8.2.2	Personal protection equipr	nent:				
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:	ab coat				
	Respiratory Equipment	VIOSH approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	Do not take internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower				
	١	Vash thoroughly after handling.				
	1	No data available.				
	Se	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	cal and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A solid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):	No data available.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air or	mm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):					
	Specific Gravity (Water = 1)					
	Solubility in Water:	No data.				
	Solubility Notes:	Soluble in: EtOH; DMSO;				
	Octanol/Water Partition	No data.				
	Coefficient:					

Multi-region format

# **SAFETY DATA SHEET** (+)-Pilocarpine-d3 (hydrochloride)

Caj	man			(+)-Phocarphie-0	us (ny	arocin	oride)	Revis	ion: 11/03/2019
	Autoignition Pt: Decomposition Temperature: Viscosity:		ure:	No data. No data. No data.					
9.2	2 Other Information Percent Volatile: Molecular Formula & Weig			No data. C11H13D3N2O2 • HCI	247.7				
			-	Section 10. Stability		Reacti	vitv		
10.1	Reactivi	tv:		ata available.	y ana	Rouou	vity		
10.2	Stability	-		able [ ] Stable [ X ]					
10.3	-	Note(s):		e if stored in accordance with	informa	tion listed	on the product	insert.	
	Polymer	ization:	Will o	ccur [ ] Will not occur [ ]	X ]				
10.4	Conditio	ons To Avoid:	No da	ata available.					
10.5	Incompa	atibility - Materials	stron	g oxidizing agents					
	To Avoid	d:							
10.6	Hazardo			n dioxide					
	•	osition or		n monoxide					
	Byprodu	icts:	-	gen chloride gas Jen oxides					
			S	ection 11. Toxicolo	gical	Informa	ation		
11.1	Informat Toxicolo	tion on ogical Effects:	The t	oxicological effects of this pro	oduct hav	/e not bee	n thoroughly st	udied.	
CAS	#	Hazardous Com	ponen	ts (Chemical Name)		NTP	IARC	ACGIH	OSHA
	NA	(+)-Pilocarpine-d3	3 (hydr	ochloride)		n.a.	n.a.	n.a.	n.a.
			ç	Section 12. Ecolog	ical Ir	format	ion		
12.1	Toxicity	:	Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste		No data available.						
10.0	Degrada	-							
12.3	Potentia	mulative	No data available.						
12.4	Mobility		No data available.						
12.5	-		No data available.						
12.0	assessn		No at						
12.6			No da	ata available.					
			S	ection 13. Disposa	l Con	siderat	ions		
13.1	Waste D	isposal Method:	Dispo	se in accordance with local,	state, an	d federal r	egulations.		
1									

Multi-region format



## **SAFETY DATA SHEET** (+)-Pilocarpine-d3 (hydrochloride)

Revision: 11/03/2019

		Section 14. Tran	sport Informat	tion			
14.1 LAND T	RANSPORT (US I	DOT):					
DOT Prope	r Shipping Name:	Alkaloid salt, solid, n.o.s. po	bisonous ((+)-Pilocarp	ine-d3 (hydrochlor	ide))		
DOT Hazar	d Class:	6.1 POISON					
UN/NA Nun	nber:	UN1544	Packing Grou	ıp:	I		
		POISON					
		6					
14.1 LAND T	RANSPORT (Euro	opean ADR/RID):					
ADR/RID S	hipping Name:	Alkaloid salt, solid, n.o.s. p	pisonous ((+)-Pilocar	oine-d3 (hydrochlo	ride))		
UN Numbe	r:	1544	Packing Grou	ıp:	I		
Hazard Cla	SS:	6.1 - POISON					
14.3 AIR TR	ANSPORT (ICAO/I	ATA):					
ΙCAO/ΙΑΤΑ	Shipping Name:	Alkaloid salt, solid, n.o.s. po	oisonous ((+)-Pilocar	oine-d3 (hydrochlo	ride))		
UN Numbe	r:	1544	Packing Grou	ıp:	I		
Hazard Cla	ss:	6.1 - POISON	IATA Classifi	cation:	6.1		
Additional Tra	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.			
Information:		When sold in quantities of less		-			
		E1, E2, E4, or E5, this item mee					
		Therefore packaging does not h	have to be labeled as	Dangerous Goods	/Excepted Quantity.		
		Section 15. Regul	atory Informa	tion			
EPA SARA (Sı	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name) S. 302 (EHS)		S. 304 RQ	S. 313 (TRI)		
NA	(+)-Pilocarpine-d	3 (hydrochloride)	No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists			
NA	(+)-Pilocarpine-d	3 (hydrochloride)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
Statement:		No.1272/2008.					
		Section 16. Oth	ner Information	n			
Revision Date:		11/03/2019					
Additional Info	rmation About	No data available.					
This Product:							
Company Policy or Disclaimer:		DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for					
		their particular purposes.					