

Revision: 12/26/2017

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008								
	Section 1.	Identification of the Substance/Mixture and of th	e Company/Undertaking						
.1	Product Code: 23779								
	Product Name:	Droxidopa							
	Synonyms:	(.beta.R),3-dihydroxy-L-tyrosine; L-DOPS; SM	5688;						
2	Relevant identified uses	of the substance or mixture and uses advised aga	inst:						
	Relevant identified use	s: For research use only, not for human or veterin	ary use.						
3	Details of the Supplier of the Safety Data Sheet:								
	Company Name: Cayman Chemical Company								
		1180 E. Ellsworth Rd.							
	Mak site address.	Ann Arbor, MI 48108							
	Web site address: Information:	www.caymanchem.com	.4 (724)074 2225						
		Cayman Chemical Company	+1 (734)971-3335						
4	Emergency telephone nu		1 (000) 404 0000						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300						
			+1 (703)527-3887						
		Section 2. Hazards Identifica	ation						
1	Classification of the Sub	stance or Mixture:							
2		ye Irritation, Category 2 Toxicity (single exposure), Category 3							
2	Specific Target Organ								
2	Specific Target Organ Label Elements:	Toxicity (single exposure), Category 3							
2	Specific Target Organ Label Elements:								
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases:	Toxicity (single exposure), Category 3 Warning							
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat	Toxicity (single exposure), Category 3 Warning tion.							
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases:	Toxicity (single exposure), Category 3 Warning tion. ye irritation.							
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation.							
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et H335: May cause respira GHS Precaution Phrase	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation.							
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et H335: May cause respira GHS Precaution Phrase	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}.							
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious en H335: May cause respirat GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}.	n						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious en H335: May cause respirat GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. oroughly after handling. gloves/protective clothing/eye protection/face protection	n						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho P280: Wear {protective c GHS Response Phrase	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. oroughly after handling. gloves/protective clothing/eye protection/face protection	n						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho P280: Wear {protective c GHS Response Phrase P302+352: IF ON SKIN:	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. proughly after handling. gloves/protective clothing/eye protection/face protection es:							
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et H335: May cause respira GHS Precaution Phrase P261: Avoid breathing (c P264: Wash {hands} tho P280: Wear {protective of GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED:	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. proughly after handling. gloves/protective clothing/eye protection/face protection es: Wash with plenty of soap and water.	tion comfortable for breathing.						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et H335: May cause respira GHS Precaution Phrase P261: Avoid breathing (c P264: Wash {hands} tho P280: Wear {protective of GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED:	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. proughly after handling. gloves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. : Remove victim to fresh air and keep at rest in a positi	tion comfortable for breathing.						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho P280: Wear {protective c GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EX to do. Continue rinsing.	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. proughly after handling. gloves/protective clothing/eye protection/face protection s: Wash with plenty of soap and water. : Remove victim to fresh air and keep at rest in a positi	tion comfortable for breathing.						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious et H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho P280: Wear {protective c GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EX to do. Continue rinsing. P312: Call a POISON CI P332+313: If skin irritation	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. proughly after handling. gloves/protective clothing/eye protection/face protection es: Wash with plenty of soap and water. : Remove victim to fresh air and keep at rest in a positi YES: Rinse cautiously with water for several minutes. ENTER or doctor/physician if you feel unwell. on occurs, get medical advice/attention.	tion comfortable for breathing.						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho P280: Wear {protective of GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EX to do. Continue rinsing. P312: Call a POISON CI P332+313: If skin irritatio P337+313: If eye irritatio	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. broughly after handling. gloves/protective clothing/eye protection/face protection es: Wash with plenty of soap and water. : Remove victim to fresh air and keep at rest in a positi YES: Rinse cautiously with water for several minutes. ENTER or doctor/physician if you feel unwell. on occurs, get medical advice/attention. on persists, get medical advice/attention.	tion comfortable for breathing.						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho P280: Wear {protective of GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EX to do. Continue rinsing. P312: Call a POISON CI P332+313: If skin irritatio P337+313: If eye irritatio	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. proughly after handling. gloves/protective clothing/eye protection/face protection es: Wash with plenty of soap and water. : Remove victim to fresh air and keep at rest in a positi YES: Rinse cautiously with water for several minutes. ENTER or doctor/physician if you feel unwell. on occurs, get medical advice/attention.	tion comfortable for breathing.						
2	Specific Target Organ Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritat H319: Causes serious ey H335: May cause respira GHS Precaution Phrase P261: Avoid breathing {c P264: Wash {hands} tho P280: Wear {protective of GHS Response Phrase P302+352: IF ON SKIN: P304+340: IF INHALED: P305+351+338: IF IN EX to do. Continue rinsing. P312: Call a POISON CI P332+313: If skin irritatio P337+313: If eye irritatio	Toxicity (single exposure), Category 3 Warning tion. ye irritation. atory irritation. es: dust/fume/gas/mist/vapors/spray}. broughly after handling. gloves/protective clothing/eye protection/face protection protective clothing/eye protection/face protection s: Wash with plenty of soap and water. : Remove victim to fresh air and keep at rest in a positive YES: Rinse cautiously with water for several minutes. ENTER or doctor/physician if you feel unwell. on occurs, get medical advice/attention. on persists, get medical advice/attention. taminated clothing and wash it before reuse.	tion comfortable for breathing.						

Section 2       Droxidopa       Revisor: 122820         23       Adverse Human Health       Causes serious eye irritation. Effects and Symptoms:       Causes skin irritation. May be inrititation, ingestion, or skin absorption. May be and the by indication, ingestion, or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigate Section 3. Composition/Information on Ingredients         CAS # / RECS # / RECAC Registration No.       Section 1. Composition/Information on Ingredients         23851-85-8       Dihydroxybenylserine-13C       100.0 %       688-528-3       Skin Corr. 2: H315 Eye Damage 2X: H319 STOT (SE) 3: H335 H336         23851-85-8       Dihydroxybenylserine-13C       100.0 %       688-528-3       Skin Corr. 2: H315 Eye Damage 2X: H319 STOT (SE) 3: H335 H336         248       In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get immediate medical attention.         In Case of Skin Contact:       Immediate medical attention.       In Case of Skin Contact:       Indecide personnel.         In Case of Leye Contact:       Hold eyelids apart and flush yeys with plenty of water for at least 15 minutes. Have eyes exami 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 b medical personnel.         <				SAFE	TY DATA SH	IEET	Page: 2 of 5
Effects and Symptoms:       Causes skin irritation.         Material may be irritation, ingestion, or skin absorption.       May be harmful by inhalation, ingestion, or skin absorption.         May cause respiratory system irritation.       To the best of our knowledge, the toxicological properties have not been thoroughly investigate         Cause respiratory system irritation.         To the best of our knowledge, the toxicological properties have not been thoroughly investigate         Case # / Hazardous Components (Chemical Namey/ REACH Registration No.         Zast51-85-8         Uphydroxyphenylserine-13C         100.0 %         Bester Colspan="2">Concentration         EC No/ REACH Registration No.         Zast51-85-8         VT9626010         Dihydroxyphenylserine-13C       100.0 %       688-28-3       Skin Corr. 2: H315 Eyo Damage 2A: H319 STOT (SE) 3: H335 H336         Section 4. First Aid Measures         In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get immediate medical attention if symptoms occur. Wash clothing before reuse.         In Case of Skin Contact:       Hold oyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exami and tested by medical personnel.         Mastitude for fugesti	Саи	nan		I	Droxidopa		Revision: 12/26/2017
Effects and Symptoms:       Causes skin irritation.         May be irritation, ingestion, or skin absorption.       May be irritation, ingestion, or skin absorption.         May cause respiratory system irritation.       To the bast of our knowledge, the toxicological properties have not been thoroughly investigate         Section 3. Composition/Information on Ingredients         Concentration on Ingredients         RACH Registration No.         Zasts-19-5.         Vigezono         Wirdowphenylserine-13C         100.0 %         Beckin Grist Aid Measures:         In Case of Inhalation:         Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get immediate medical attention.         In Case of Skin Contact:         In Case of Skin Contact:         In Case of Skin Contact:         Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exami 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 b medical personnel.         Lestinguishing         Lestinduct	2.3	Adverse	e Human Health	Causes serious eve irritation			
Material may be irritating to the mucous membranes and upper respiratory tract.         May be harmful by inhalation, ingestion, or skin absorption.         May cause respiratory system irritation.         To the best of our knowledge, the toxicological properties have not been thoroughly investigate         Section 3. Composition/Information on Ingredients         CAS # / Hazardous Components (Chemical Namey/ RTECS #         Hazardous Components (Chemical Namey/ RTECS #)       Concentration       EC No/ EC Index No.       GHS Classification         23851-95-8       Ditydroxyphenylserine-13C       100.0 %       688-528-3 NA       Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336         Section 4. First Aid Measures         In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personi Get immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamin clothing. Get medical attention if symptoms occur. Wash clothing before reuse.         In Case of Eye Contact:       Houd eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exami and tested by medical personnel.         Section 5. Fire Fighting Measures         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 b medical personnel.         Section 5. Fire Fighting	-			-			
May cause respiratory system initiation. To the best of our knowledge, the toxicological properties have not been thoroughly investigate Section 3. Composition/Information on Ingredients CAS # / Hazardous Components (Chemical Namey/ REACH Registration No. 23061-95-8 VT9628010 Difydroxyphenylserine-13C Difydroxyphenylserine-13C Section 4. First Aid Measures Section of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get immediate medical attention. In Case of Skin Contect: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamin 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 exami 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 b medical personnel. 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dixide, water, or dry chemical spray. 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. Cata available. Flash Pr: No data. Cata available. Fla					he mucous membra	nes and upper res	spiratory tract.
To the best of our knowledge, the toxicological properties have not been thoroughly investigate         Section 3. Composition/Information on Ingredients         CAS # / REACH Registration No.       Concentration       EC No./ EC Index No.       GHS Classification         23651-65-8 VT9626010       Dihydroxyphenylserine-13C       100.0 %       688-528-3 NA       Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336         Section 4. First Aid Measures         A         In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get immediate medical attention.         In Case of Skin Contact: In Case of Skin Contact: In Case of Skin Contact:         Hordical personnel.         In Case of Ingestion: In Case of Ingestion:         Vash 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 b medical personnel.         Section 5. Fire Fighting Measures: Unsuitable Extinguishing Vash 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 b medical personnel.         Section 5. Fire Fighting Measures: Unsuitable Extinguishing Vash out mouth with water provided person is conscious. Never give anything by mouth to an uncon				May be harmful by inhalation	, ingestion, or skin a	absorption.	
Section 3. Composition/Information on Ingredients         CAS # / REACH Registration No.         Z2861-95-8 VT9628010       Dihydroxyphenylserine-13C       Concentration       EC No./ EC Index No.       GHS Classification         23861-95-8 VT9628010       Dihydroxyphenylserine-13C       100.0 %       688-528-3 NA       Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336         Section 4. First Aid Measures         4.1       Description of First Aid Measures:         In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get immediate medical attention.         In Case of Skin Contact:       Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamin 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 exami 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 b medical personnel.         5.1       Suitable Extinguishing No data available.       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:         5.2       Flash P				May cause respiratory syster	n irritation.		
CAS # / RTECS #         Hazardous Components (Chemical Name)/ REACH Registration No.         Concentration         EC No./ EC Index No.         GHS Classification           23851-95-8         Dihydroxyphenylserine-13C         100.0 %         688-528-3 NA         Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336           4.1         Description of First Aid Measures:         In Case of Inhalation:         Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get immediate medical attention.           In Case of Skin Contact:         Immediate/Wash skin with soap and plenty of water for at least 15 minutes. Remove contamin 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 exami 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 b medical personnel.           In Case of Ingestion:         Use water spray to cool fire-exposed containers.           Unsuitable Extinguishing Media:         Use aclohol-resistant foam, carbon dioxide, water, or dry chemical spray.           Use water spray to cool fire-exposed containers.         Use water spray to cool fire-exposed containers.           Unsuitable Extinguishing Media:         No data available.           Flash Pt: <td></td> <td></td> <td></td> <td>To the best of our knowledge</td> <td>, the toxicological p</td> <td>roperties have no</td> <td>t been thoroughly investigated.</td>				To the best of our knowledge	, the toxicological p	roperties have no	t been thoroughly investigated.
RTECS #         REACH Registration No.         EC Index No.           23651-95-8 VT9628010         Dihydroxyphenylserine-13C         100.0 %         688-528-3 NA         Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336           Section 4. First Aid Measures           All Description of First Aid Measures: In Case of Inhalation: Cet immediate medical attention.           In Case of Skin Contact:         Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamin 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 exami 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 b medical personnel.           Stable 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.           Autoignition Pt:         No data. </td <td></td> <td></td> <td>Sect</td> <td>tion 3. Composition</td> <td>/Information</td> <td>on Ingredie</td> <td>nts</td>			Sect	tion 3. Composition	/Information	on Ingredie	nts
VT9626010       NA       Eye Damage 2A: H319 STOT (SE) 3: H335 H336         Section 4. First Aid Measures         4.1       Description of First Aid Measures:         In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained persons Get immediate medical attention.         In Case of Skin Contact:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contamin clothing. Get medical attention if symptoms occur. Wash clothing before reuse.         In Case of Lye Contact:       Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exami 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 b medical personnel.         Section 5. Fire Fighting Measures         5.1       Suitable Extinguishing Media:       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.         Hazards:       No data.         Stopsive Limits:       LE1: No data.         Use limits:       LE1: No data.         Stopsive Limits:       LE1: No data.         Sta Fire Fighting Instructions:			-		Concentration		GHS Classification
Status	23651	-95-8	Dihydroxyphenylseri	ne-13C	100.0 %	688-528-3	Skin Corr. 2: H315
Section 4. First Aid Measures           4.1         Description of First Aid Measures:           In Case of Inhalation:         Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person Get 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 contamin clothing. Get medical attention if symptoms occur. Wash clothing before reuse.           In Case of Ingestion:         Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exami 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 b medical personnel.           Section 5. Fire Fighting Measures         Section 5. Fire Fighting Measures.           5.1         Suitable Extinguishing Media:         Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.           Media:         Use 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.           5.3         Fire Fighti	VT9626	6010				NA	Eye Damage 2A: H319
4.1       Description of First Aid         Measures:       In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained persons Get immediate medical attention.         In Case of Skin Contact:       Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamin 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 exami 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 b medical personnel.         Section 5.       Fire Fighting Measures         5.1       Suitable Extinguishing         Media:       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.         Hazards:       No data available.         Flash Pt:       No data.         Explosive Limits:       LEL: No data.         Using into Pt:       No data.         5.3       Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIO							STOT (SE) 3: H335 H336
Measures:       In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained person. Get immediate medical attention.         In Case of Skin Contact:       Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamine 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 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 b medical personnel.         Suitable Extinguishing       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use water stream may be inefficient.         Media:       Use water stream may be inefficient.         Media:       No data available.         Hazards:       No data.         Flash Pt:       No data.         Flash Pt:       No data.         Stall Stinguishing Properties       No data.         Flash Pt:       No data.         Stall Stinguishing Properties       No data.         Flash Pt:       No data.         Stall Stinguishing Properties       Stall Available.         Hazards:       Stall Available.<				Section 4. Fi	rst Aid Meas	ures	
In Case of Inhalation:       Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personal Get immediate medical attention.         In Case of Skin Contact:       Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamine 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 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 b medical personnel.         Section 5. Fire Fighting Measures       Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.         Media:       Use water stream may be inefficient.         Media:       No data available.         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	4.1	Descrip	tion 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 contamin 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 exami 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 b 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:         5.2       Flammable Properties andNo data available.         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							
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unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so b medical personnel.           Section 5. Fire Fighting Measures           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:         Solid water stream may be inefficient.           Media:         No data available.           Hazards:         No data available.           Flash Pt:         No data.           Explosive Limits:         LEL: No data.         UEL: No data.           Autoignition Pt:         No data.         Sin any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or		In Caso	of Indestion:			nscious Nevera	ive anything by mouth to an
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Unsuitable Extinguishing       A solid water stream may be inefficient.         Media:	5.1	Suitable	e Extinguishing				spray.
<ul> <li>Media:</li> <li>5.2 Flammable Properties and No data available. Hazards:         <ul> <li>No data available.</li> <li>Flash Pt:</li> <li>No data.</li> <li>Explosive Limits:</li> <li>LEL: No data.</li> <li>UEL: No data.</li> </ul> </li> <li>5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or</li> </ul>		Media:		Use water spray to cool fire-e	exposed containers.		
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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			-				
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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		Flash P	t:				
<ul> <li>Autoignition Pt: No data.</li> <li>5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or</li> </ul>					UEL: No da	ata.	
5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or		-					
•••		-			ained breathing ann	aratus pressure-d	emand (NIOSH approved or
equivalent, and fair protocitive goar to provent contact with order of the eyeo.	5.5	rite riy	ining instructions	-		-	
				equivalenty, and fair protectiv	e gear to prevent et		



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	<u> </u>	Section 6. Accidental Release Measures						
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.						
		As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,						
	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	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:							
		Section 7. Handling and Storage						
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.						
	in Handling:	Avoid prolonged or repeated exposure.						
7.2	Precautions To Be Taken	Keep container tightly closed.						
	in Storing:	Store in accordance with information listed on the product insert.						
	Secti	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 equip	nent:						
	Eye Protection:	Safety glasses						
	Protective Gloves: Compatible chemical-resistant gloves							
	Other Protective Clothing:Lab coat							
	Respiratory Equipment	Equipment NIOSH approved respirator, as conditions warrant.						
	(Specify Type):							
	Work/Hygienic/Maintenan							
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.						
		Nash thoroughly after handling.						
		No data available.						
		ction 9. Physical and Chemical Properties						
9.1	-	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):	No data.						
	vapor Density (vs. All = 1):							
		Multi-region formation						



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Specific Gravity (Water		ravity (Water =	1):	No data.						
	Solubility i	n Water:		No data.						
	Solubility I	Notes:	Soluble (slightly) in:water;							
	Octanol/W	ater Partition		No data.						
	Coefficient	t:								
	Autoignitic	on Pt:		No data.						
	-	ition Temperat	ure:	No data.						
	Viscosity:	•		No data.						
9.2	Other Infor	mation								
0.2	Percent Vo			No data.						
		Formula & Weig	abti	C9H11NO5	213.3					
	wolecular		-							
			S	Section 10.	Stability and	Reactiv	/ity			
10.1	10.1 Reactivity:		No da	ta available.						
10.2	10.2 Stability:		Unsta	ble [ ] Stab	ole [ X ]					
10.3	Stability No.	ote(s):	Stable	if stored in acco	ordance with informa	tion listed c	on the product	insert.		
	Polymeriza	ation:	Will o	ccur [ ] Will	I not occur [ X ]					
10.4	Conditions	s To Avoid:	No da	ta available.						
10.5	Incompatik	oility - Materials	strong	oxidizing agent	ts					
	To Avoid:									
10.6	Hazardous	;	carbo	n dioxide						
	Decompos	ition or	carbo	n monoxide						
	Byproduct		nitrogen oxides							
	-		Se	ction 11	Toxicological	Informa	ation			
11.1	Informatio				¥			udiad		
11.1	Information on		The toxicological effects of this product have not been thoroughly studied.							
	0			Droxidopa - Toxicity Data: Oral LD50 (rat): >10 gm/kg; Subcutaneous LD50 (rat): 84 mg/kg; Oral LD50 (mouse): >10 gm/kg; Subcutaneous LD50 (mouse): >10 gm/kg;						
	Chronio To	vicelegical								
		oxicological	Droxidopa - Investigated as a drug and reproductive effector.							
	Effects:		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.							
				•	mber: VT9626010					
				-						
	CAS # Hazardous Com				ame)	NTP	IARC	ACGIH	OSHA	
2365	51-95-8 D	ihydroxyphenyls	serine-1	3C		n.a.	n.a.	n.a.	n.a.	
			S	Section 12.	. Ecological Ir	formati	on			
12.1	2.1 Toxicity:		Avoid release into the environment.							
			Runoff from fire control or dilution water may cause pollution.							
12.2	Persistenc	e and	No da	ta available.						
	Degradabi	litv:								
12.3	Bioaccum	-	No da	ta available.						
12.0	Potential:		no da							
12.4	Potential: Mobility in Soil:		No da	ta available						
	-		No data available.							
12.5		PBT and vPvB	No da	ta avallable.						
	assessmer									
12.6	Other adve	erse effects:	No da	ta available.						
								N	Iulti-region format	



Multi-region format

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	sposal Method:			ions				
		Dispose in accordance with loca	al, state, and federal r	egulations.				
		Section 14. Trans	sport Informat	ion				
14.1 LAND TR	RANSPORT (US I	DOT):						
DOT Proper	Shipping Name:	Not dangerous goods.						
DOT Hazard								
UN/NA Num								
	-	opean ADR/RID):						
UN Number:	ipping Name:	Not dangerous goods.						
Hazard Clas								
	NSPORT (ICAO/I	IATA):						
	Shipping Name:	, Not dangerous goods.						
Additional Trans		Transport in accordance with lo	cal, state, and federal	l regulations.				
Information:								
		Section 15. Regul	atory Informat	tion				
EPA SARA (Sup	perfund Amendm	ents and Reauthorization Act o	•					
		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
23651-95-8	Dihydroxyphenyls	serine-13C	No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	State Lists	ł				
23651-95-8	Dihydroxyphenyls	serine-13C	CAA HAP,ODC: No PROP.65: No	o; CWA NPDES: No	; TSCA: No; CA			
Regulatory Infor	mation	This SDS was prepared in acco	rdance with 29 CFR 1	910.1200 and Regul	ation (EC)			
Statement:		No.1272/2008.						
		Section 16. Oth	ner Information	า				
Revision Date:		12/26/2017						
Additional Inform	nation About	No data available.						
This Product:								
Company Policy	or Disclaimer:	DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their o their particular purposes.	er, we make no warra to such information, a	anty of merchantabilit and we assume no lia	y or any other warran ability resulting from it			