according to the OSHA Hazard Communication Standard



## **SEROSTIM 5 MG VIAL**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04/25/2024	90MDGM353033	Date of first issue: 04/25/2024

### **SECTION 1. IDENTIFICATION**

Product name	: SEROSTIM 5 MG VIAL			
Manufacturer or supplier's details				
Company	: EMD Serono, Inc. One Technology Place MA-02370 Rockland United States of America			
Responsible Department	: e-mail: HealthcareSDS@emdgroup.com			
Emergency telephone num- ber	<ul> <li>800-424-9300 CHEMTREC (USA)</li> <li>+1-703-527-3887 CHEMTREC (International)</li> <li>613-996-6666 CANUTEC (Canada)</li> <li>24 Hours/day; 7 Days/week</li> </ul>			

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Mixture of inorganic and organic compounds

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Saccharose	57-50-1	>= 70 - < 90
Phosphoric acid, sodium salt	7632-05-5	>= 1 - < 5

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice	: Do not leave the victim unattended.
If inhaled	: If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: Remove contaminated clothing. Rinse with water.
In case of eye contact	If symptoms persist, call a physician. : Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
	<ul> <li>If symptoms persist, call a physician.</li> <li>Remove contaminated clothing. Rinse with water.</li> <li>If symptoms persist, call a physician.</li> <li>Remove contact lenses. Protect unharmed eye.</li> </ul>

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lf swa	allowed	Never give anyt	y tract clear. or alcoholic beverages. hing by mouth to an unconscious person. rsist, call a physician.
	important symptoms iffects, both acute and ed	: Fever Headache fluid retention hypertension	
Notes	s to physician	: Treat symptoma	atically.
	5. FIREFIGHTING MEA	SURES	
Suita	ble extinguishing media	: Use extinguishin cumstances and : Combustible.	ng measures that are appropriate to local cir- I the surrounding environment.
Suita Spec fightir	ble extinguishing media	<ul> <li>Use extinguishin cumstances and</li> <li>Combustible.</li> <li>Development of possible in the e</li> <li>Standard proceet</li> <li>Use extinguishin</li> </ul>	the surrounding environment. hazardous combustion gases or vapours

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Use personal protective equipment. Dispose of promptly. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains. Indications about waste treatment see section 13.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Technical measures	:	Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").
Local/Total ventilation Advice on protection against fire and explosion		Ensure adequate ventilation. Normal measures for preventive fire protection.

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Advi	ce on safe handling		otection see section 8. g and drinking should be prohibited in the ap-
Cond	ditions for safe storage	plication area. Observe label : Electrical instal the technologic	precautions. lations / working materials must comply with al safety standards.
Mate	erials to avoid	place.	tightly closed in a dry and well-ventilated be especially mentioned.
	ner information on stor- stability	: No decomposit	ion if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Saccharose	57-50-1	TWA	10 mg/m3	ACGIH
		TWA (Res- pirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respir- able dust fraction)	5 mg/m3	OSHA P0
		TWA	10 mg/m3	ACGIH
		TWA (Res- pirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respir- able dust fraction)	5 mg/m3	OSHA P0

Engineering measures

: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

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Р	Personal protective equipment					
	espiratory protection Filter type	:		pours/aerosols are generated. o DIN 3181) for solid and liquid particles of ic substances		
Н	and protection Material Break through time Glove thickness Manufacturer		Nitrile rubber > 480 min 0.11 mm KCL 741 Dermatr			
S	ye protection kin and body protection rotective measures		to the concentration at the specific work			
Η	ygiene measures	:	General industrial	hygiene practice.		
SECT	ION 9. PHYSICAL AND CHE	ΞΜΙΟ		S		
A	ppearance	:	Lyophilisate			
С	olour	:	white			
0	dour	:	No data available	9		
			slight			
0	dour Threshold	:	Not applicable			
pl	Н	:	neutral			
		:	No data available	9		
		:	No data available	9		
F	lash point	:	No data available	9		
	pper explosion limit / Upper ammability limit	:	Not applicable			
	ower explosion limit / Lower ammability limit	:	Not applicable			
V	apour pressure	:	No data available	9		
D	ensity	:	No data available	9		
S	olubility(ies) Water solubility	:	No data available	9		
			soluble			
	artition coefficient: n- ctanol/water	:	No data available	9		

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		Not applicable		
Visco: Vis	sity scosity, kinematic	: No data availa	able	
Explo	sive properties	: Not classified	as explosive.	
Oxidiz	zing properties	: none		

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Violent reactions possible with: Strong oxidizing agents
Conditions to avoid Incompatible materials Hazardous decomposition products	:	No data available Not applicable No decomposition if stored and applied as directed.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified due to lack of data.

## Product:

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Components:

### Saccharose:

Acute oral toxicity	:	LD50 (Rat): 29,700 mg/kg
-		Remarks: (RTECS)

### Skin corrosion/irritation

Not classified due to lack of data.

## Product:

Remarks : No	data available
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### **Components:**

## Phosphoric acid, sodium salt:

Assessment	:	Irritating to skin.
,		

according to the OSHA Hazard Communication Standard



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Serio	us eye damage/eye	e irritation	
Not cl	assified due to lack	of data.	
<u>Produ</u>	uct:		
Rema	irks	: No data ava	ilable
Com	oonents:		
Phos	phoric acid, sodiur	n salt:	
Asses	sment	: Irritating to e	eyes.
Resp	iratory or skin sens	sitisation	
Skin	sensitisation		
Not cl	assified due to lack	of data.	
-	<b>iratory sensitisatio</b> assified due to lack		
Produ	uct:		
Rema		: No data ava	ilable
Not cl	cell mutagenicity assified due to lack	of data.	
<u>Produ</u>			
Geno	toxicity in vitro	: Remarks: N	o data available
Geno	toxicity in vivo	: Remarks: N	o data available
<u>Com</u>	oonents:		
Sacc	harose:		
Geno	toxicity in vitro	Result: nega	
		Remarks. (N	lational Toxicology Program)
Carci	nogenicity		
Not cl IARC		onent of this product	present at levels greater than or equal to 0.1% or confirmed human carcinogen by IARC.
OSHA		onent of this product   's list of regulated ca	present at levels greater than or equal to 0.1% cinogens.
NTP			present at levels greater than or equal to 0.1% pated carcinogen by NTP.

## Reproductive toxicity

Not classified due to lack of data.

according to the OSHA Hazard Communication Standard



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	<b>DT - single exposure</b> classified due to lack of d	lata.		
	<b>DT - repeated exposure</b> classified due to lack of d	lata.		
Rep	eated dose toxicity			
	<u>duct:</u> narks	:	No data available	
•	<b>iration toxicity</b> classified due to lack of d	lata.		
Fur	ther information			
	duct:			
Ren	narks	:	Physiologically ac Therapeutically u	
Ren	narks	:	Handle in accorda practice.	ance with good industrial hygiene and safety
Con	nponents:			
Sac	charose:			
Ren	narks	:	Substances which	h occur in nature
Ren	narks	:		rties cannot be excluded but are unlikely is handled appropriately.
Ren	narks	:	Handle in accorda practice.	ance with good industrial hygiene and safety

## SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

Product:	

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to fish (Chronic tox- icity)	:	Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: No data available

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Toxic	ity to microorganisms	:	Remarks: No dat	a available
No da	istence and degradabi ata available ccumulative potential	lity		
	ponents:			
Partit	<b>harose:</b> ion coefficient: n- iol/water	:	log Pow: -3.277	
	<b>lity in soil</b> ata available			
Othe	r adverse effects			
Prod	<u>uct:</u>			
Ozon	e-Depletion Potential	:	tection of Stratos Substances Remarks: This pr tured with a Class	FR Protection of Environment; Part 82 Pro- oheric Ozone - CAA Section 602 Class I oduct neither contains, nor was manufac- s I or Class II ODS as defined by the U.S. tion 602 (40 CFR 82, Subpt. A, App.A + B).
Addit matio	ional ecological infor- n	:	Discharge into the	e environment must be avoided.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal	methods
14/	

Waste from residues	: Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
Contaminated packaging	<ul> <li>The hazard and precautionary statements displayed on the label also apply to any residues left in the container.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Packaging that is not properly emptied must be disposed of as the unused product.</li> </ul>

### SECTION 14. TRANSPORT INFORMATION

### International Regulations

### UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

according to the OSHA Hazard Communication Standard



## **SEROSTIM 5 MG VIAL**

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Not re	egulated as a dangero	us good						
Trans	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code							
Not a	Not applicable for product as supplied.							
Natio	National Regulations							
Spec	ial precautions for u	ser						
Rema	arks	: Not classifi lations.	ied as dangerous in the meaning of transport regu-					

### SECTION 15. REGULATORY INFORMATION

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	: No SARA Hazards	
SARA 313	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minim reporting levels established by SARA Title III, Section 313).	is)

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Saccharose

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	Growth Hormone, Phosphoric acid, s		nan Pituitary, Iodina m salt	ation Grade	12629-01-5 7632-05-5
Mair	ne Chemicals of High C	onc	ern		
	Product does not o	conta	ain any listed chem	icals	
Verr	nont Chemicals of High				
			ain any listed chem	icals	
was	hington Chemicals of I Product does not c	-	ain any listed chem	icals	
Cali	fornia Permissible Exp	osu	re Limits for Chen	nical Contaminants	
	Saccharose				57-50-1
	components of this pro		-	-	
TCS	I	:	On the inventory,	or in compliance wit	h the inventory
TSC	A	:	Product contains	substance(s) not list	ed on TSCA inventory.
AIIC		:	Not in compliance	e with the inventory	
DSL		:	on the Canadian		mponents that are not dination Grade
ENC	S	:	Not in compliance	e with the inventory	
ISHL	-	:	Not in compliance	e with the inventory	
KEC	1	:	Not in compliance	e with the inventory	
PICO	CS	:	Not in compliance	e with the inventory	
IECS	SC	:	Not in compliance	e with the inventory	
NZIc	OC	:	On the inventory,	or in compliance wit	h the inventory
TEC	I	:	Not in compliance	e with the inventory	

## **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

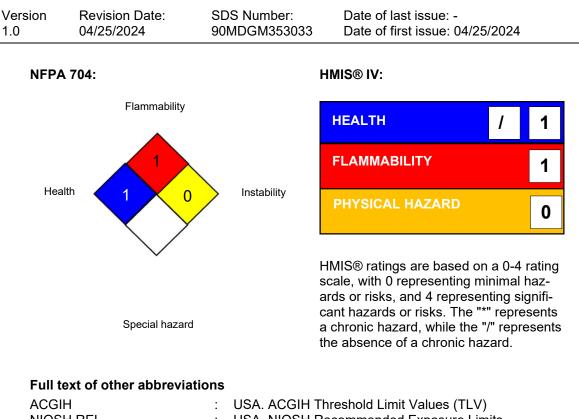
## **SECTION 16. OTHER INFORMATION**

### Further information

according to the OSHA Hazard Communication Standard



## SEROSTIM 5 MG VIAL



ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level;

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NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date

04/25/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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