according to the OSHA Hazard Communication Standard



# SEROSTIM 4 MG VIAL

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

### **SECTION 1. IDENTIFICATION**

Product name : SEROSTIM 4 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

800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

613-996-6666 CANUTEC (Canada)

24 Hours/day; 7 Days/week

#### **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.

If symptoms persist, call a physician. In case of skin contact : Remove contaminated clothing.

Rinse with water.

If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

If eye irritation persists, consult a specialist.

1 / 12

according to the OSHA Hazard Communication Standard



# SEROSTIM 4 MG VIAL

Version Revision Date: SDS Number: Date of last issue: -

04/24/2024 90MDGM353035 Date of first issue: 04/24/2024 1.0

If swallowed Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

Fever Headache fluid retention

hypertension

Treat symptomatically. Notes to physician

**SECTION 5. FIREFIGHTING MEASURES** 

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Specific hazards during fire-

fighting

Combustible.

Development of hazardous combustion gases or vapours

possible in the event of fire.

Further information Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

**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.

If the product contaminates rivers and lakes or drains inform **Environmental precautions** 

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** 

Install appropriate equipment and wear appropriate personal Technical measures

protective equipment (see "8. Exposure control/personal pro-

tection").

Local/Total ventilation

Advice on protection against

fire and explosion

Ensure adequate ventilation.

Normal measures for preventive fire protection.

according to the OSHA Hazard Communication Standard



# **SEROSTIM 4 MG VIAL**

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Observe label precautions.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Keep container tightly closed in a dry and well-ventilated

place.

Materials to avoid : No materials to be especially mentioned.

Further information on stor-

age stability

No decomposition 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 parameters / 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 (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable 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 (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable 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.

according to the OSHA Hazard Communication Standard



# **SEROSTIM 4 MG VIAL**

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

Personal protective equipment

Respiratory protection : required when vapours/aerosols are generated.

Filter type : Filter P 3 (acc. to DIN 3181) for solid and liquid particles of

toxic and very toxic substances

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.11 mm

Manufacturer : KCL 741 Dermatril® L

Eye protection : Safety glasses Skin and body protection : Protective suit

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

Hygiene measures : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** 

Appearance : Lyophilisate

Colour : white

Odour : No data available

slight

Odour Threshold : Not applicable

pH : neutral

: No data available

: No data available

Flash point : No data available

Upper explosion limit / Upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Vapour pressure : No data available

Density : No data available

Solubility(ies)

Water solubility : No data available

soluble

Partition coefficient: n-

octanol/water

No data available

according to the OSHA Hazard Communication Standard



# **SEROSTIM 4 MG VIAL**

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

Not applicable

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not classified as explosive.

Oxidizing properties : none

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be

assumed.

Chemical stability : No decomposition if stored and applied as directed.

The product is chemically stable under standard ambient con-

ditions (room temperature).

Possibility of hazardous reac-

tions

Violent reactions possible with: Violent reactions possible with:

Strong oxidizing agents
Strong oxidizing agents

Conditions to avoid : No data available

no information available

Incompatible materials

Hazardous decomposition

products

Not applicable

No decomposition if stored and applied as directed.

no information available

### **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)

according to the OSHA Hazard Communication Standard



# **SEROSTIM 4 MG VIAL**

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

# Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks : No data available

**Components:** 

Phosphoric acid, sodium salt:

Assessment : Irritating to skin.

Serious eye damage/eye irritation

Not classified due to lack of data.

**Product:** 

Remarks : No data available

**Components:** 

Phosphoric acid, sodium salt:

Assessment : Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : No data available

Germ cell mutagenicity

Not classified due to lack of data.

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:** 

Saccharose:

Genotoxicity in vitro : Test Type: Mutagenicity (mammal cell test):

Result: negative

Remarks: (National Toxicology Program)

Carcinogenicity

Not classified due to lack of data.

according to the OSHA Hazard Communication Standard



# **SEROSTIM 4 MG VIAL**

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

IARC No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

**Product:** 

Remarks : No data available

**Aspiration toxicity** 

Not classified due to lack of data.

**Further information** 

**Product:** 

Remarks : Physiologically active substance.

Therapeutically used substance.

Remarks : Handle in accordance with good industrial hygiene and safety

practice.

**Components:** 

Saccharose:

Remarks : Substances which occur in nature

Remarks : Hazardous properties cannot be excluded but are unlikely

when the product is handled appropriately.

Remarks : Handle in accordance with good industrial hygiene and safety

practice.

### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

**Product:** 

Toxicity to fish : Remarks: No data available

according to the OSHA Hazard Communication Standard



# SEROSTIM 4 MG VIAL

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

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

Toxicity to microorganisms : Remarks: No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

Components:

Saccharose:

Partition coefficient: n-

octanol/water

log Pow: -3.277

**Mobility in soil**No data available

Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: 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).

Additional ecological infor-

mation

Discharge into the environment must be avoided.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

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.

The hazard and precautionary statements displayed on the

label also apply to any residues left in the container.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

Packaging that is not properly emptied must be disposed of as

according to the OSHA Hazard Communication Standard



# SEROSTIM 4 MG VIAL

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

the unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **National Regulations**

#### Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regu-

lations.

### **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 Minimis) reporting levels established by SARA Title III, Section 313.

#### 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.

according to the OSHA Hazard Communication Standard



# **SEROSTIM 4 MG VIAL**

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

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 57-50-1
Growth Hormone, Human Pituitary, Iodination Grade 12629-01-5
Phosphoric acid, sodium salt 7632-05-5

### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

# **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

# **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

# California Permissible Exposure Limits for Chemical Contaminants

Saccharose 57-50-1

### The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Growth Hormone, Human Pituitary, Iodination Grade

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

TECI: Not in compliance with the inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

according to the OSHA Hazard Communication Standard



# SEROSTIM 4 MG VIAL

Version Revision Date: SDS Number: Date of last issue: -

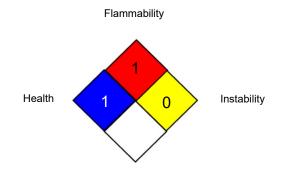
1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

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

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

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

AlIC - 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 Dan-

according to the OSHA Hazard Communication Standard



# SEROSTIM 4 MG VIAL

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/24/2024 90MDGM353035 Date of first issue: 04/24/2024

gerous 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; 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 : 04/24/2024

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.

US / EN