

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 03-Jan-2022 Revision Number 3

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 355006

Product Name Corning® MITO+ Serum Extender

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

For research use only. Not Intended for Diagnostic or Therapeutic Use.

1.3. Details of the supplier of the safety data sheet

Company Name
Corning Life Sciences
Discovery Labware
2 Oak Park
Bedford, MA 01730
USA
(978) 442-2200

Importer
Corning B.V.
Fogostraat 12
1060 LJ Amsterdam, The Netherlands

+31-(0)20-6557928

For further information, please contact

E-mail address ScientificSupportEMEA@Corning.com

1.4. Emergency telephone number

Chemtrec: +1-800-424-9300 (USA), +1-703-527-3887 (International; Call collect)

Chemtrec Customer Number: CCN5688*

mergency Telephone - §45 - (EC)1272/2008		
Europe	112	
Austria	+43 1 406 43 43	
Belgium	+359 2 9154 233	
Denmark	+45 8212 1212	
Finland	0800 147 111	
France	+ 33 (0)1 45 42 59 59	
Germany	06131-19240	
Ireland	353 (1) 809 2166	
Italy	800-883300	
Netherlands	+31(0)30 274 8888	
Norway	22 59 13 00	
Poland	(12) 411 99 99	
Portugal	+351 800 250 250	
Spain	34 91 562 04 20	
Sweden	112	
Switzerland	145	
United Kingdom	08454 24 24 24	

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Reproductive toxicity	Category 2 - (H361)

2.2. Label elements

Contains ECGS- Endothelial Cell Growth Supplement, O-Phosphorylethanolamine, Streptomycin sulfate



Signal word Danger

Hazard statements

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements - EU (§28, 1272/2008)

P305 + P351 + P338 - IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P331 - Do NOT induce vomiting

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P270 - Do not eat, drink or smoke when using this product

P260 - Do not breathe dusts or mists

Additional information

This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Sodium selenite	233-267-9	10102-18-8	<0.1	Acute Tox. 2 (H300)	No data available



Acute Tox. 3 (H331) Skin Sens. 1 (H317)
(EUH031) Aquatic Chronic 2 (H411)

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get immediate medical advice/attention.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get immediate medical advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood

pressure may occur with moist rales, frothy sputum, and high pulse pressure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.



Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

ventilation. Use personal protective equipment as required. Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

clothing and wash before reuse. Remove contaminated clothing and shoes.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach



of children. Protect from moisture. Store locked up. Store away from other materials.

7.3. Specific end use(s)

Risk Management Methods (RMM) This information is supplied in the present Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	Euro	pean Union	Austria	Belgium	Bu	Igaria	Croatia
Sodium selenite			TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³	TWA: (0.2 mg/m ³	TWA: 0.1 mg/m ³
10102-18-8			STEL 0.3 mg/m ³				
Chemical name		Cyprus	Czech Republic	Denmark	Es	stonia	Finland
Sodium selenite		-	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: (0.1 mg/m ³	TWA: 0.1 mg/m ³
10102-18-8			Ceiling: 0.2 mg/m ³				STEL: 0.3 mg/m ³
Chemical name		France	Germany	Germany MAK	Gı	reece	Hungary
Sodium selenite			TWA: 0.05 mg/m ³	TWA: 0.02 mg/m ³	TWA: (0.2 mg/m ³	TWA: 0.1 mg/m ³
10102-18-8				Peak: 0.16 mg/m ³			STEL: 0.2 mg/m ³
				*			
Chemical name		Ireland	Italy	Italy REL	L	atvia	Lithuania
Sodium selenite	TWA	: 0.1 mg/m ³	-	TWA: 0.2 mg/m ³			TWA: 0.1 mg/m ³
10102-18-8	STEL	_: 0.3 mg/m ³					
Chemical name	Lu	xembourg	Malta	Netherlands	No	orway	Poland
Sodium selenite			-	-	TWA: 0	.05 mg/m ³	STEL: 0.3 mg/m ³
10102-18-8						A+	TWA: 0.1 mg/m ³
					STEL: 0	0.15 mg/m ³	
Chemical name	F	Portugal	Romania	Slovakia	Slo	ovenia	Spain
Sodium selenite	TWA	: 0.2 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0	.05 mg/m ³	TWA: 0.1 mg/m ³
10102-18-8			STEL: 0.2 mg/m ³		STEL: 0	0.05 mg/m ³	
Chemical name		Sı	weden	Switzerland		Uni	ted Kingdom
Sodium selenite		NGV:	0.1 mg/m ³	TWA: 0.02 mg/n		TW	A: 0.1 mg/m ³
10102-18-8				STEL: 0.16 mg/r	n³		
				H*			

Biological occupational exposure limits

Chemical name	Denmark	Finland	France	Germany	Germany
Sodium selenite	-	=	-	150 μg/L (serum -	150 μg/L (serum -
10102-18-8				Selenium no	Selenium no
				restriction)	restriction)
				150 μg/L - BAT (not	
				fixed) serum	
				100 μg/L - BAR (not	
				fixed) plasma/serum	
				20 μg/g Creatinine -	
				BAR (for long-term	
				exposures: at the	
				end of the shift after	
				several shifts) urine	

Derived No Effect Level (DNEL) Predicted No Effect Concentration No information available.

No information available.



(PNEC)

8.2. Exposure controls

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter type: P95 (US); P1 (EU EN 143).

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

None known

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid
Appearance powder
Color light orange

Odor No information available.
Odor threshold No information available

Property Values Remarks • Method

pH 7.6 +/- 0.1 pH (as aqueous solution) None known

Melting point / freezing point No data available

Initial boiling point and boiling No data available

range

Flash pointNo data availableNone knownEvaporation rateNo data availableNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability limit: No data available

Lower flammability limit No data available

Vapor pressureNo data availableNone knownRelative vapor densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility No data available Soluble in water

Solubility(ies)
No data available
None known
Partition coefficient
No data available
None known
Autoignition temperature
No data available
None known
Decomposition temperature
None known
No data available
None known
None known
None known
None known

 Kinematic viscosity
 No data available
 None known

 Dynamic viscosity
 No data available
 None known

 Evaluative proportion
 No information available

Explosive propertiesNo information available
No information available



9.2. Other information

Softening point
Molecular weight
VOC Content (%)
Liquid Density
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidizing agent.

10.6. Hazardous decomposition products

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating and toxic gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components). Corrosive to the eyes and may cause severe damage

including blindness. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.



Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 788.80 mg/kg

 ATEmix (dermal)
 10,698.50 mg/kg

Unknown acute toxicity

69.2453 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium selenite	= 7 mg/kg (Rat)		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes.

Causes burns.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. Suspected of damaging fertility or the unborn child.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

SECTION 12: Ecological information



12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicityContains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment	
Sodium selenite	PBT assessment does not apply	

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

SECTION 14: Transport information

IMDG

UN number or ID number UN3261
Transport hazard class(es) 8
Packing group II
Marine pollutant NP
Special Provisions 274
EmS-No F-A, S-B

RID

UN number or ID number UN3261

Proper shipping name Corrosive solid, acidic, organic, n.o.s.

Transport hazard class(es) 8

Transport hazard class(es)
Packing group

Description UN3261, Corrosive solid, acidic, organic, n.o.s. (O-Phosphorylethanolamine, Transferrins),

CORNING

Special Provisions 274
Classification code C4

ADR

UN number or ID number UN3261

Proper shipping name Corrosive solid, acidic, organic, n.o.s.

Transport hazard class(es) 8
Packing group | |

Description UN3261, Corrosive solid, acidic, organic, n.o.s. (O-Phosphorylethanolamine, Transferrins),

8, II, (E)

Special Provisions274Classification codeC4Tunnel restriction code(E)

<u>IATA</u>

UN number or ID number UN3261

Proper shipping name Corrosive solid, acidic, organic, n.o.s.

Transport hazard class(es) 8
Packing group

Description UN3261, Corrosive solid, acidic, organic, n.o.s. (O-Phosphorylethanolamine, Transferrins),

8, II

Special Provisions A3, A803 ERG Code 8L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Sodium selenite	RG 75	-
10102-18-8		

Germany

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Sodium selenite - 10102-18-8	75.	

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status
DSL/NDSL Contact supplier for inventory compliance status



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EINECS/ELINCS
Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

EUH031 - Contact with acids liberates toxic gas

H300 - Fatal if swallowed

H317 - May cause an allergic skin reaction

H331 - Toxic if inhaled

H411 - Toxic to aquatic life with long lasting effects

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value * Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method



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Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date

03-Jan-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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.

End of Safety Data Sheet

Europe

Full process, including GHS and Transportation Wizards

EU SDS version information - EGHS
UL release date: 17 June 2020
GHS Revision 7

