

according to the OSHA Hazard Communication Standard

Sodium Selenite / Vitamin E Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 11/29/2023
6.1	09/28/2024	895430-00017	Date of first issue: 09/21/2016

SECTION 1. IDENTIFICATION

Product name Other means of identification		Sodium Selenite / Vitamin E Injection Formulation E-SE Injection (A000603)			
Manufacturer or supplier's details					
Company name of supplier	•	Merck & Co Inc			

Company name of supplier	•	
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin sensitization	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 1

GHS label elements

Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H302 + H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction. H372 Causes damage to organs through prolonged or repeated exposure.
Precautionary Statements	:	Prevention: P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

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		the workplace	nated work clothing must not be allowed out of otective gloves.
		unwell. Rinse P302 + P352 P304 + P340 - and keep com unwell. P314 Get mec P333 + P313 tion.	 P330 IF SWALLOWED: Call a doctor if you feel mouth. F ON SKIN: Wash with plenty of soap and water. P312 IF INHALED: Remove person to fresh air fortable for breathing. Call a doctor if you feel lical attention if you feel unwell. f skin irritation or rash occurs: Get medical atten- ontaminated clothing before reuse.
		Disposal: P501 Dispose disposal plant.	of contents and container to an approved waste

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

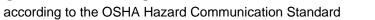
Substance.	/ Mixture	:	Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
(dl)-a-Tocopheryl acetate	7695-91-2	5.15
Benzyl alcohol	100-51-6	2.19
Sodium selenite	10102-18-8	0.35 - 1.13

SECTION 4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek me advice immediately. When symptoms persist or in all cases of doubt see advice. 	
If inhaled	 If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms occur. 	
In case of skin contact	 In case of contact, immediately flush skin with plenty Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. 	of water.
In case of eye contact	 Flush eyes with water as a precaution. Get medical attention if irritation develops and persis If swallowed, DO NOT induce vomiting unless direct 	
II Swalloweu		





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		nportant symptoms ects, both acute and d	:	Harmful if swallow May cause an alle	tion. oughly with water. ng by mouth to an unconscious person.
	Protection of first-aiders		:	First Aid responde and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).
		o physician	•		cally and supportively.
SEC	CTION 5	. FIRE-FIGHTING ME	ASL	JRES	
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specifi fighting	c hazards during fire I	:	Exposure to comb	oustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Carbon oxides	
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
		l protective equipment fighters	:		e, wear self-contained breathing apparatus. rective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.



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	ds and materials for nment and cleaning up	For large spills, containment to can be pumped container. Clean up remain absorbent. Local or national disposal of this employed in the determine which Sections 13 and	ert absorbent material. provide diking or other appropriate keep material from spreading. If diked material , store recovered material in appropriate ning materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to n regulations are applicable. d 15 of this SDS provide information regarding mational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	



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			exposure)	concentration	
(dl)-a·	-Tocopheryl acetate	7695-91-2	TWA	5000 ug/m3 (OEB 1)	Internal
Benzy	yl alcohol	100-51-6	TWA	10 ppm	US WEEL
Sodiu	ım selenite	10102-18-8	TWA	20 µg/m3 (OEB 3)	Internal
			Wipe limit	200 µg/100 cm ²	Internal
			TWA	0.2 mg/m ³ (selenium)	OSHA Z-1
			TWA	0.2 mg/m ³ (selenium)	ACGIH
			TWA	0.2 mg/m ³ (selenium)	NIOSH REL

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.
Personal protective equipment	
Respiratory protection :	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection	adequate protection.
Material :	Chemical-resistant gloves
Remarks:Eye protection:Skin and body protection:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. Work uniform or laboratory coat.
Skin and body protection .	Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets,



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Hygie	ne measures	Use appropriat contaminated of lf exposure to of eye flushing sy working place. When using do Contaminated workplace. Wash contamin The effective o engineering co appropriate de	chemical is likely during typical use, provide stems and safety showers close to the o not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, one monitoring, medical surveillance and the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	amber
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available



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[Density	1	:	No data available	9
S	Solubili Wat	ty(ies) er solubility	:	No data available	2
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
[Decom	position temperature	:	No data available	9
١	Viscosi Visc	ty cosity, kinematic	:	No data available	
E	Explosi	ve properties	:	Not explosive	
(Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle Particle	e characteristics e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
•	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 421.51 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 4.43 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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			Method: Calculation	on method	
Com	ponents:				
(dl)-a	-Tocopheryl acetate:				
Acute	e oral toxicity	:	LD50 (Rat): > 5,00	0 mg/kg	
Acute	e dermal toxicity	:	LD50 (Rat): > 3,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity		
Benz	yl alcohol:				
Acute	e oral toxicity	:	LD50 (Rat): 1,200	mg/kg	
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.4 Exposure time: 4 h Test atmosphere: Method: OECD Te Assessment: The tion toxicity	dust/mist	
Sodi	um selenite:				
Acute	e oral toxicity	:	LD50 (Rat): 4.8 m	g/kg	
Acute	e inhalation toxicity	:	LC50 (Rat): > 0.05 Exposure time: 4 h Test atmosphere: Method: OECD Te	n dust/mist	
Not c	corrosion/irritation lassified based on ava ponents:	ilable	information.		
	-Tocopheryl acetate:				
Spec Meth Resu	ies od	:	Rabbit OECD Test Guide No skin irritation	line 404	
Benz	yl alcohol:				
Spec Meth Resu	ies od	:	Rabbit OECD Test Guide No skin irritation	line 404	
Sodi	um selenite:				
Spec Meth	ies	:	reconstructed hum OECD Test Guide	an epidermis (RhE) line 431	
Spec	ies	:	reconstructed hum	an epidermis (RhE)	
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Method	Ł	: OECD Test Guideline 439	
Result		: Skin irritation	
	s eye damage/eye ssified based on ava		
<u>Compo</u>	onents:		
(dl)-a-⊺	Focopheryl acetate		
Specie Result Methoo		: Rabbit : No eye irritation : OECD Test Guideline 405	
Benzy	l alcohol:		
Specie Result Methoo		 Rabbit Irritation to eyes, reversing within 21 days OECD Test Guideline 405 	
Sodiur	n selenite:		
Result		: Irritation to eyes, reversing within 21 days	
Respir	atory or skin sensi	ization	
	ensitization ause an allergic skin	eaction.	
-	atory sensitization ssified based on ava	lable information.	
Compo	onents:		
(dl)-a-⊺	Focopheryl acetate		
Test Ty		: Draize Test	
Routes Specie	of exposure	: Skin contact : Humans	
Result	5	: negative	
Benzy	l alcohol:		
Test Ty		: Human repeat insult patch test (HRIPT)	
Routes Specie	s of exposure	: Skin contact : Humans	
Result		: positive	
Assess	sment	: Probability or evidence of low to moderate skin ser rate in humans	nsitizatio
Sodiur	n selenite:		
		: Probability or evidence of skin sensitization in hum	



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Re	Remarks Germ cell mutagenicity Not classified based on availal		:	Based on nationa	l or regional regulation.
			able	information.	
<u>Co</u>	ompo	nents:			
(dl	l)-a-T	ocopheryl acetate:			
Ge	Genotoxicity in vitro		:	Test Type: Chrom Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473
				Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
Ge			:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
Ве	enzyl	alcohol:			
Ge	enoto	xicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
Ge	Genotoxicity in vivo		:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) :: Intraperitoneal injection
So	odium	n selenite:			
Ge	enoto	xicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
		ogenicity ssified based on availa	able	information.	
<u>Co</u>	ompo	onents:			
(dl	(dl)-a-Tocopheryl acetate:				

· · · ·	
Species	: Rat
Application Route	: Ingestion
Exposure time	: 104 weeks
Result	: negative
Result	: negative



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	Benzyl Species	alcohol:		Maura				
	Application Route Exposure time Method Result			 Mouse Ingestion 103 weeks OECD Test Guideline 451 negative 				
				of this product present at levels greater than or equal to 0.1% is robable, possible or confirmed human carcinogen by IARC.				
				t of this product present at levels greater than or equal to 0.1% is t of regulated carcinogens.				
					nt at levels greater than or equal to 0.1% is d carcinogen by NTP.			
	-	luctive toxicity ssified based on ava	ilable	information.				
	Compo	onents:						
	(dl)-a-T	ocopheryl acetate:						
	Effects on fertility		:	Test Type: Repr test Species: Rat Application Rou Result: negative				
	Effects on fetal development		nt :	Test Type: Emb Species: Rabbit Application Rou Result: negative	te: Ingestion			
	Benzyl	alcohol:						
	Effects on fertility		:	Species: Rat Application Rou Result: negative				
	Effects	on fetal developmer	nt :	Test Type: Emb Species: Mouse Application Rou Result: negative	te: Ingestion			
		n selenite: on fertility	:	Test Type: Two- Species: Rat Application Rou Result: negative				



rsion	Revision Date: 09/28/2024		S Number: 5430-00017	Date of last issue: 11/29/2023 Date of first issue: 09/21/2016
			Remarks: Base	ed on data from similar materials
Effects on fetal development		:	Test Type: Em Species: Mous Application Ro Result: negativ	ute: Ingestion
	-single exposure			
	assified based on availa	able	information.	
	-repeated exposure es damage to organs th	rouo	h prolonaed or r	repeated exposure.
	oonents:			
Sodiu	ım selenite:			
Route	es of exposure esment	:		uce significant health effects in animals at cor 10 mg/kg bw or less.
Repeated dose toxicity				
-	oonents:			
(dl)-a	-Tocopheryl acetate:			
Speci		:	Rat	
NOAE		:	500 mg/kg	
	cation Route	:	Ingestion	
Expos	sure time	:	90 Days	
Benz	yl alcohol:			
Speci		:	Rat	
NOAE		:	1.072 mg/l	
	cation Route sure time	÷	inhalation (dus 28 Days	t/mist/fume)
Metho		:	OECD Test Gu	uideline 412
Sodiu	ım selenite:			
Speci		:	Rat	
NOAE	EL	:	0.88 mg/kg	
	cation Route sure time	:	Ingestion 13 Weeks	
Aspir	ation toxicity			
Not cl	assified based on availa	able	information.	
Expe	rience with human exp	οοςι	Ire	
-	onents:			

Components:

Sodium selenite:



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Inhalation		:	 Target Organs: Respiratory Tract Symptoms: Irritation, Edema Target Organs: Cardio-vascular system Symptoms: Lowered blood pressure Target Organs: Digestive organs Symptoms: Nausea, Vomiting, Irritability Target Organs: Nervous system Symptoms: Neurological disorders Target Organs: Hair Symptoms: hair loss Target Organs: Skin Symptoms: Rash, Skin disorders Target Organs: Endocrine system 		
	12. ECOLOGICAL INF(ORN	IATION		
Ecoto	xicity				
<u>Comp</u>	onents:				
. ,	Tocopheryl acetate:				
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokin 100 mg/l Exposure time: 72 Method: OECD Te		
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 100 mg/l 3 d	
Toxici	ty to microorganisms	:	EC50: > 927 mg/l Exposure time: 30 Method: ISO 8192		
Benzy	/l alcohol:				
	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 3 h	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 230 mg/l 3 h	



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				Method: OECD To	est Guideline 202
	Toxicity to algae/aquatic plants		:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
			:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
	Sodiun	n selenite:			
	Toxicity	r to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 1 - 10 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 1.2 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 96	omonas reinhardtii (green algae)): > 0.1 - 1 5 h on data from similar materials
				mg/l Exposure time: 96	omonas reinhardtii (green algae)): > 0.1 - 1 6 h on data from similar materials
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Lepomis r Exposure time: 25	nacrochirus (Bluegill sunfish)): 0.022 mg/l 58 d
	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC: 0.096 mg/ Exposure time: 28	
	ic toxici Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	h
	Persistence and degradability				
	<u>Compo</u>	onents:			
		ocopheryl acetate: radability	:	Result: Not readily Biodegradation: 2	



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		Exposure tim Method: OEC	e: 28 d D Test Guideline 301C		
	yl alcohol: gradability		ily biodegradable. pn: 92 - 96 % e: 14 d		
Bioad	cumulative potential				
Com	oonents:				
Partit	yl alcohol: ion coefficient: n- ol/water	: log Pow: 1.05	;		
	lity in soil ata available				
••	r adverse effects ata available				
SECTION	SECTION 13. DISPOSAL CONSIDERATIONS				

Disposal	methods	

Disposal methods		
Waste from residues	: Dispose of in accordance with local regulations. Do not dispose of waste into sewer.	
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.	
	If not otherwise specified: Dispose of as 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.

Domestic regulation

49 C	CFR
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UN/ID/NA number	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s.
	(Sodium selenite)



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Label ERG	ng group s Code e pollutant	SIZES WHER	INFORMATION ONLY APPLIES TO PACKAGE E THE HAZARDOUS SUBSTANCE MEETS FABLE QUANTITY.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium selenite	10102-18-8	100	8849

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Sodium selenite	10102-18-8	100	8849

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Sodium selenite	10102-18-8	10000
Sodium selenite	10102-18-8	100*

*: Solid in the molten or powdered form (particles < 100 microns), in solution, or meeting the NFPA reactivity criteria

SARA 311/312 Hazards	:	Acute toxicity (any route of exposure) Respiratory or skin sensitization Specific target organ toxicity (single or repeated exposure)		
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:		
		Sodium selenite	10102-18-8	0.35 - 1.13 %
US State Regulations				

5 State Regulations

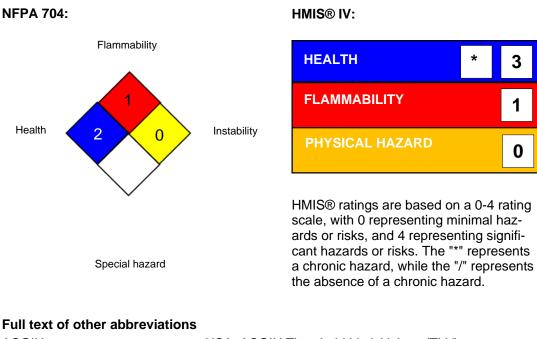
Pennsylvania Right To Know	
Water	7732-18-5
Polyethylene glycol sorbitan monooleate	9005-65-6
Polyethylene glycol castor oil	61791-12-6
(dl)-a-Tocopheryl acetate	7695-91-2
Benzyl alcohol	100-51-6
Sodium selenite	10102-18-8



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California List of Hazardous Substances					
	Sodium selenite		10102-18-8		
California Permissible Exposure Limits for Chemical Contaminants					
	Sodium selenite		10102-18-8		
The ingredients of this product are reported in the following inventories:					
AICS		: not determin	ned		
DSL		: not determir	ned		
IECS	C	: not determir	ned		

SECTION 16. OTHER INFORMATION

Further information



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



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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; 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

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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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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