

Version	Revision Date:	SDS Number:	Date of last issue: 11/29/2023
5.1	09/28/2024	895414-00017	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 o	letails	
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 Hazardous Products Regulations

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. P272 Contaminated work clothing should not be allowed out of

SAFETY DATA SHEET



according to the Hazardous Products Regulations

Sodium Selenite / Vitamin E Injection Formulation

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		the workplace. P280 Wear pro	tective gloves.
		unwell. Rinse r P302 + P352 II P304 + P340 + and keep comf unwell. P314 Get medi P333 + P313 If tion.	P330 IF SWALLOWED: Call a doctor if you feel nouth. FON SKIN: Wash with plenty of water. P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a doctor if you feel cal attention if you feel unwell. skin irritation or rash occurs: Get medical atten- rake off contaminated clothing and wash it before
		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 Common Name/Synonym		CAS-No.	Concentration (% w/w)
(dl)-a-Tocopheryl ace- tate	-Tocopheryl ace- Benzopyran-6- ol, 3,4-dihydro- 2,5,7,8- tetramethyl-2- (4,8,12- trimethyl- tridecyl)-, 6- acetate		5.15
Benzyl alcohol	Benzenemetha- nol	100-51-6	2.19
Sodium selenite	Selenious acid, sodium salt	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 medical advice immediately.
	When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	: If inhaled, remove to fresh air.



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In case	e of skin contact	If breathing Get medical In case of co Remove cor Get medical Wash clothin	ing, give artificial respiration. is difficult, give oxygen. attention if symptoms occur. ontact, immediately flush skin with plenty of water. ntaminated clothing and shoes. attention. ng before reuse. clean shoes before reuse.
In case	e of eye contact		with water as a precaution.
lf swal	lowed	: If swallowed so by medic Get medical Rinse mouth	attention if irritation develops and persists. I, DO NOT induce vomiting unless directed to do al personnel. attention. thoroughly with water. anything by mouth to an unconscious person.
	mportant symptoms fects, both acute and d	: Harmful if sw May cause a	vallowed or if inhaled. an allergic skin reaction. hage to organs through prolonged or repeated
Protec	tion of first-aiders	: First Aid res and use the	ponders should pay attention to self-protection, recommended personal protective equipment tential for exposure exists (see section 8).
Notes	to physician		omatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Enviror	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
		ls and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	a absorbent material. Tovide diking or other appropriate ep material from spreading. If diked material store recovered material in appropriate and materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional 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.
Materials to avoid	:	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures



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Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
(dl)-a-Tocopheryl acetate	7695-91-2	TWA	5000 ug/m3 (OEB 1)	Internal
Sodium 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)	CA AB OEL
		TWAEV	0.2 mg/m ³ (selenium)	CA QC OEL
		TWA	0.1 mg/m ³ (selenium)	CA BC OEL
		TWA	0.2 mg/m ³ (selenium)	ACGIH

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 equipme	ent	
Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type Hand protection	:	Combined particulates and organic vapor type
Material	:	Chemical-resistant gloves
Remarks Eye 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



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Skin a	and body protection	task being perfo disposable suits	garments should be used based upon the rmed (e.g., sleevelets, apron, gauntlets,) to avoid exposed skin surfaces. degowning techniques to remove potentially
Hygiene measures		: If exposure to ch eye flushing sys working place. When using do r Contaminated w workplace. Wash contamina The effective op engineering com appropriate dego	nemical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. Fork clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e 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



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Relativ	ve vapor density	:	No data available					
Relativ	ve density	:	: No data available					
Densit	ty	:	No data available					
	lity(ies) ater solubility	:	No data available	9				
	on coefficient: n- bl/water	:	Not applicable					
	nition temperature	:	No data available	9				
Decor	nposition temperature	:	No data available	9				
Viscos Vis	sity cosity, kinematic	:	No data available					
Explos	sive properties	:	Not explosive					
Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.				
Particl Particl	e characteristics e size	:	Not applicable					

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	: :	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	: :	None known. Oxidizing agents 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



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Acute	e inhalation toxicity	:	Exposure time Test atmosph	
<u>Com</u>	ponents:			
(dl)-a	-Tocopheryl acetate:			
Acute	e oral toxicity	:	LD50 (Rat): >	5,000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rat): > Assessment: toxicity	3,000 mg/kg The substance or mixture has no acute dermal
Benz	yl alcohol:			
Acute	e oral toxicity	:	LD50 (Rat): 1,	200 mg/kg
Acute	e inhalation toxicity	:		e: 4 h
Sodi	um selenite:			
Acute	e oral toxicity	:	LD50 (Rat): 4	8 mg/kg
Acute	inhalation toxicity	:	Exposure time Test atmosph	
-	corrosion/irritation lassified based on avai	ilable i	nformation.	
Com	ponents:			
(dl)-a	-Tocopheryl acetate:			
Spec Meth Resu	od	: : :	Rabbit OECD Test G No skin irritati	
Benz	yl alcohol:			
Spec	-	:	Rabbit	
Meth Resu		:	OECD Test G No skin irritati	
Sodi	um selenite:			



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Specie Metho		reconstructed human epidermis (RhE)OECD Test Guideline 431							
Specie Metho		reconstructed human epidermis (RhE)OECD Test Guideline 439							
Result		: Skin irritation							
Serious eye damage/eye irritation Not classified based on available information.									
Comp	onents:								
(dl)-a-	Tocopheryl acetate:								
Specie		: Rabbit							
Result Metho		No eye irritationOECD Test Guideline 405							
_									
-	l alcohol:								
Specie Result		: Rabbit : Irritation to eyes, reversing within 21 days							
Metho		: OECD Test Guideline 405							
Sodiu	m selenite:								
Result		: Irritation to eyes, reversing within 21 days							
Respir	ratory or skin sensit	zation							
Skin s	ensitization								
	ause an allergic skin r	eaction.							
-	ratory sensitization assified based on avai	lable information.							
Comp	onents:								
(dl)-a-	Tocopheryl acetate:								
Test T	уре	: Draize Test							
	s of exposure	: Skin contact							
Specie Result		: Humans : negative							
Benzv	'l alcohol:								
Test T		: Human repeat insult patch test (HRIPT)							
Routes	s of exposure	: Skin contact							
Specie		: Humans							
Result		: positive							
Assess	sment	: Probability or evidence of low to moderate skin sensitization rate in humans							
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	Assess		:		dence of skin sensitization in humans
	Remar		:	Based on nationa	l or regional regulation.
		cell mutagenicity ssified based on availa	able	information.	
	Compo	onents:			
	(dl)-a-1	Focopheryl acetate:			
	Genoto	oxicity in vitro	:	Test Type: Chron 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
	Genoto	oxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
	Benzy	l alcohol:			
	Genoto	oxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
	Genoto	oxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection
	Sodiur	n selenite:			
	Genoto	oxicity 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.	
	Compo	onents:			
	(dl)-a-1	Focopheryl acetate:			
	Specie Applica		:	Rat Ingestion 104 weeks	



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	Result		:	negative				
	Specie: Applica	ition Route are time	:	Mouse Ingestion 103 weeks OECD Test Guide negative	line 451			
	Reproductive toxicity Not classified based on available information.							
	Compo	onents:						
	(dl)-a-T	ocopheryl acetate:						
	Effects	on fertility	:	Test Type: Repro- test Species: Rat Application Route Result: negative	duction/Developmental toxicity screening : Ingestion			
	Effects	on fetal development	:	Test Type: Embry Species: Rabbit Application Route Result: negative	o-fetal development : Ingestion			
	Benzyl	alcohol:						
	Effects	on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials			
	Effects	on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development : Ingestion			
	Sodiun	n selenite:						
	Effects	on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials			
	Effects	on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development : Ingestion			



STOT-single exposure Not classified based on available information. STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure. Components: Sodium selenite: Routes of exposure :: : Ingestion Assessment :: : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less. Repeated dose toxicity : Components: June 101/201/201/201/201/201/201/201/201/201/	Version 5.1	Revision Date: 09/28/2024	SDS Number: 895414-00017	Date of last issue: 11/29/2023 Date of first issue: 09/21/2016							
Not classified based on available information. STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure. Components: Sodium selenite: Repeated dose toxicity Components: (dl)-a-Tocopheryl acetate: Species : Rat NOAEL : 500 mg/kg Application Route : Ingestion Exposure time : 20 Days Benzyl alcohol: Species : Rat NOAEL : 1072 mg/l Application Route : DECD Test Guideline 412 Sodium selenite: Species : 1 Rat NOAEL : 0.08 mg/kg Application Route : 13 Weeks Application Route : 13 Weeks	STO	T-single exposure									
Causes damage to organs through prolonged or repeated exposure. Sodium selenite: Routes of exposure : Ingestion Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less. Repeated dose toxicity Components: (d)-a-Tocopheryl acetate: Species : Rat NOAEL : Ingestion Exposure time : 1002 mg/kg Application Route : Ingestion Exposure time : 1.072 mg/l Application Route : Inflexion (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite: Species : Rat NOAEL : Ingestion Exposure time : 13 Weeks Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Different : Target Organs: Respiratory Tract Symptoms: Lowered blood pressure Target Organs: Cardon-vascular system Symptoms: Lowered blood pressure Target Organs: Digestive organs											
Components: Sodium selenite: Routes of exposure :: Assessment :: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less. Repeated dose toxicity Components: (d)-a-Tocopheryl acetate: Species :: NOAEL :: Species :: Repeated dose toxicity OMAEL :: Species :: Reposure time :: Species :: Method :: Species :: Method :: Species :: Species :: Species :: Species : NoAEL :: NoAEL :: Speciosion Route :	STO	T-repeated exposure									
Sodium selenite: Routes of exposure ingestion Assessment Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less. Repeated dose toxicity Components: (dl)-a-Tocopheryl acetate: Species Rat NOAEL 500 mg/kg Application Route 10 ng/kg Application Route 90 Days Benzyl alcohol: Species Species Rat NOAEL 1.072 mg/l Application Route 1.072 mg/l Application Route 28 Days Method COEO Test Guideline 412 Sodium selenite: Species Species Rat NOAEL 0.88 mg/kg Application Route 1.088 mg/kg Application Route 1.13 Weeks Aspiration toxicity Not classified based on available information. Exposure time 1.3 Weeks Aspiration toxicity Sodium selenite: Sodium selenite: Target Organs: Respiratory Tract Symptoms: Invisetion, Ederma Symptoms: Invastion, Vomiting, Irritability	Caus	es damage to organs	through prolonged	or repeated exposure.							
Routes of exposure : Ingestion Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less. Repeated dose toxicity Components: (dl)-a-Tocopheryl acetate: Species : Rat NOAEL : 500 mg/kg Application Route : Ingestion Exposure time : 90 Days Benzyl alcohol: : Species : Rat NOAEL : 1.072 mg/l Application Route : Inhalation (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite: : Species : Rat NOAEL : 0.88 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity . Not classified based on available information. Experience with human exposure Components: Sodium selenite: Inhalation : Target Organs: Respiratory Tract Symptoms: Universe thiod oryans: Cardio-vascular system Symptoms: Digestive organs <td>Com</td> <td>ponents:</td> <td></td> <td></td>	Com	ponents:									
Assessment Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less. Repeated dose toxicity Components: (dl)-a-Tocopheryl acetate: Species Rat NOAEL 500 mg/kg Application Route Ingestion Exposure time :90 Days Benzyl alcohol: Species Species : Rat NOAEL : 1.072 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite: . Species : Rat NOAEL : 0.88 mg/kg Application Route : Ingestion Exposure time : 1.3 Weeks Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Sodium selenite: Ingestion ': Target Organs: Respiratory Tract Symptoms: Unretable of pressure system Symptoms: Lowered blood pressure system Symptoms: Digestive organs Symptoms: Digestive organs	Sodi	um selenite:									
Components: (dl)-a-Tocopheryl acetate: Species Rat NOAEL 500 mg/kg Application Route 90 Days Benzyl alcohol:		Routes of exposure : Ingestion Assessment : Shown to produce significant health effects in animals at co									
Image: Constraint of the system of the sy	Repe	eated dose toxicity									
Species : Rat NOAEL : 500 mg/kg Application Route : Ingestion Exposure time : 90 Days Benzyl alcohol: : Species Species : Rat NOAEL : 1.072 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite: : Species Species : Rat NOAEL : 0.88 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Sodium selenite: : Inaget Organs: Respiratory Tract Symptoms: Lowered blood pressure Target Organs: Cardio-vascular system Symptoms: Lowered blood pressure Target Organs: Digestive organs Symptoms: Lowered blood pressure Target Organs: Digestive organs	<u>Com</u>	ponents:									
NOAEL : 500 mg/kg Application Route : Ingestion Exposure time : 90 Days Benzyl alcohol:	(dl)-a	a-Tocopheryl acetate	:								
Application Route : Ingestion Exposure time : 90 Days Benzyl alcohol: : Species : Rat NOAEL : 1.072 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite: : Species : Rat NOAEL : 0.88 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity . Not classified based on available information. . Experience with human exposure Components: Sodium selenite: . Inhalation : Target Organs: Respiratory Tract Symptoms: Lowered blood pressure Symptoms: Cardio-vascular system Symptoms: Loyeered blood pressure Target Organs: Digestive organs Symptoms: Nausea, Vomiting, Irritability .											
Exposure time : 90 Days Benzyl alcohol: Species : Rat NOAEL : 1.072 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite: : Species Species : Rat NOAEL : 0.88 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity . Not classified based on available information. Experience with human exposure Components: . Sodium selenite: . Inhalation : Target Organs: Respiratory Tract Symptoms: Irritation, Edema Target Organs: Cardio-vascular system Symptoms: Lowered blood pressure Target Organs: Digestive organs Target Organs: Digestive organs Symptoms: Nausea, Vomiting, Irritability	-										
Species : Rat NOAEL : 1.072 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite:											
NOAEL : 1.072 mg/l Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite: . Species : Rat NOAEL : 0.88 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Sodium selenite: Inhalation : Target Organs: Respiratory Tract Symptoms: Lowered blood pressure Target Organs: Digestive organs Symptoms: Lowered blood pressure Target Organs: Digestive organs Symptoms: Lowered blood pressure	Benz	yl alcohol:									
Application Route : inhalation (dust/mist/fume) Exposure time : 28 Days Method : OECD Test Guideline 412 Sodium selenite: . Species : Rat NOAEL :: 0.88 mg/kg Application Route : Ingestion Exposure time : 13 Weeks Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Sodium selenite: Inhalation : Target Organs: Respiratory Tract Symptoms: Lowered blood pressure Target Organs: Digestive organs Symptoms: Digestive organs Symptoms: Nausea, Vomiting, Irritability											
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Not classified based on available information. Experience with human exposure Components: Sodium selenite: 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	Aspi	ration toxicity									
Components: Sodium selenite: 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	-	•	ilable information.								
Sodium selenite: 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	Ехре										
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	<u>Com</u>	ponents:									
Symptoms: Irritation, Edema Target Organs: Cardio-vascular system Symptoms: Lowered blood pressure Target Organs: Digestive organs Symptoms: Nausea, Vomiting, Irritability	Sodi	um selenite:									
Target Organs: Cardio-vascular system Symptoms: Lowered blood pressure Target Organs: Digestive organs Symptoms: Nausea, Vomiting, Irritability	Inhal	ation									
Symptoms: Lowered blood pressure Target Organs: Digestive organs Symptoms: Nausea, Vomiting, Irritability											
Target Organs: Digestive organs Symptoms: Nausea, Vomiting, Irritability											
			Target Orga	ns: Digestive organs							
ingestion . rarget Organs: Nervous system	Inger	tion									
	inges	SUON	. Target Orga	IIS. INELVOUS SYSTEM							



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				Symptoms: Neuro Target Organs: Ha Symptoms: hair lo Target Organs: Sk Symptoms: Rash, Target Organs: Er	air ss kin Skin disorders		
SEC	SECTION 12. ECOLOGICAL INFORMATION						
	Ecoto	kicity					
	<u>Comp</u>	onents:					
	(dl)-a-	Focopheryl acetate:					
	Toxicit	y to fish	:	LC50 (Oncorhync) Exposure time: 96 Method: OECD Te			
		y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te			
	Toxicit plants	y to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te			
				NOEC (Pseudokir 100 mg/l Exposure time: 72 Method: OECD Te			
	Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Oncorhyne Exposure time: 28	chus mykiss (rainbow trout)): 100 mg/l d		
	Toxicit	y to microorganisms	:	EC50: > 927 mg/l Exposure time: 30 Method: ISO 8192			
	Benzv	l alcohol:					
	-	y to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l i h		
		y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te			
	Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te			



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				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
á	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
5	Sodium	n selenite:			
	Toxicity 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 to algae/aquatic plants		:	mg/l Exposure time: 96	monas 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 5 h on data from similar materials
	Foxicity city)	to fish (Chronic tox-	:	NOEC (Lepomis r Exposure time: 25	nacrochirus (Bluegill sunfish)): 0.022 mg/l i8 d
á	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC: 0.096 mg/ Exposure time: 28	
	ic toxicity) Toxicity to microorganisms		:	EC50 (activated s Exposure time: 3 Method: OECD Te	h
I	Persistence and degradability				
<u>(</u>	Components:				
		ocopheryl acetate: adability	:	Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD Te	21.7 - 31 %
F	Benzvl	alcohol:			
	Biodegradability		:	Result: Readily bi Biodegradation: 9 Exposure time: 14	92 - 96 %



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Bioaccumulative potential

Components:

Benzyl alcohol:

Partition coefficient: n- : log Pow: 1.05 octanol/water

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

l waste
oroduct.

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

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

AICS : not determined



DSL : not determined	
IECSC : not determined	

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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: WHMIS - Workplace Hazardous Materials Information System



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Sources of key data used to compile the Material Safety Data Sheet		:		l data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ıropa.eu/
	ision Date e format	:	09/28/2024 mm/dd/yyyy	

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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