

Version 2.3	Revision Date: 28.09.2024		S Number:Date of last issue: 22.11.2023093349-00007Date of first issue: 21.11.2022			
SECTIC	ON 1. IDENTIFICATION					
Pro	Product name		Selenium Solid F	ormulation		
Oth	Other means of identification		Coopers Permat (47639)	race 3 Year Selenium Pellets for Sheep		
Ма	nufacturer or supplier's o	detai	etails			
Co	Company		MSD			
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP			
Tel	ephone	:	908-740-4000			
Em	ergency telephone	:	: 1-908-423-6000			
E-r	E-mail address		EHSDATASTEWARD@msd.com			
Re	commended use of the c	hem	ical and restriction	ons on use		
	commended use strictions on use	:	Veterinary produ Not applicable	ct		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

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 which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Selenium	7782-49-2	>= 5 -< 10

SECTION 4. FIRST AID MEASURES

General advice

In the case of accident or if you feel unwell, seek medical advice immediately.



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		of skin contact of eye contact	::	advice. If inhaled, remove Get medical atten In case of contact of water. Get medical atten If in eyes, rinse w Get medical atten If swallowed, DO Get medical atten	tion if symptoms occur. , immediately flush skin with soap and plenty tion if symptoms occur. ell with water. tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur.			
	and effe delayed Protect	nportant symptoms ects, both acute and d ion of first-aiders o physician	:	the skin. Dust contact with First Aid responde and use the recor when the potentia	can cause mechanical irritation or drying of the eyes can lead to mechanical irritation. ers should pay attention to self-protection, nmended personal protective equipment of or exposure exists (see section 8). cally and supportively.			
SEC	TION 5	. FIRE-FIGHTING ME	ASL	JRES				
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical				
	Unsuita media	able extinguishing	:	: None known.				
	Specific fighting	c hazards during fire	:	Exposure to comb	pustion products may be a hazard to health.			
	Hazard ucts	ous combustion prod-	:	Metal oxides				
	Specific ods	c extinguishing meth-	:	 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to c so. Evacuate area. 				
	Special for fire-	protective equipment fighters	:		e, wear self-contained breathing apparatus. tective 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.



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		•	ose of contaminated wash water. s should be advised if significant spillages iined.
	ds and materials for nment and cleaning up	container for dis Avoid dispersal with compresse Dust deposits sl surfaces, as the released into the Local or nationa disposal of this employed in the determine which Sections 13 and	of dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

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
Selenium	7782-49-2	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm2	Internal



CMP 0,2 mg/m³ AR OEL TWA 0,2 mg/m³ ACGIH (selenium) (selenium)	Version 2.3	Revision Date: 28.09.2024	SDS Number: 11093349-00007		f last issue: 22.11.2023 f first issue: 21.11.2022	
				CMP	0,2 mg/m ³	AR OEL
				TWA	0,2 mg/m ³ (selenium)	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis	
Selenium	7782-49-2	selenium (selenium)	Urine		25 µg/g creatinine	AR BEI	
Engineering measures	des pro Co are the cor	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 equ	ipment						
Respiratory protection	exp	dequate local oosure assess ommended gu	ment demon	strates exp	osures outside	e the	
Filter type Hand protection		Particulates type					
Material	: Ch	emical-resista	nt gloves				
Remarks Eye protection	: We If th mis We pot	sts or aerosols ar a faceshield	ses with side nment or act , wear the ap d or other ful	ivity involve propriate g I face prote	es dusty condi	sa	
Skin and body protection	: Wo Add tas dis Use	rk uniform or l ditional body g k being perfori posable suits)	arments sho med (e.g., slo to avoid exp degowning te	uld be used eevelets, ap osed skin s	d based upon pron, gauntlets surfaces. o remove pote	5,	
Hygiene measures	: If e eye wo Wh Wa The enç app ind	xposure to che a flushing syste rking place. uen using do no sh contaminat e effective ope gineering contro propriate dego	emical is like ems and safe ot eat, drink ted clothing b ration of a fa rols, proper p wning and de monitoring,	ety showers or smoke. before re-us icility should bersonal pro econtamina medical su		ew of nent, es,	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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Appea	arance	:	pellets	
Color		:	silver	
			gray	
Odor		:	No data available	9
Odor	Threshold	:	No data available	9
pН		:	No data available	9
Meltir	ng point/freezing point	:	No data available	9
Initial range	boiling point and boiling	:	No data available	9
Flash	point	:	Not applicable	
Evapo	oration rate	:	Not applicable	
Flamr	nability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.
Flamr	mability (liquids)	:	Not applicable	
	r explosion limit / Upper nability limit	:	No data available	9
	r explosion limit / Lower nability limit	:	No data available	9
Vapo	r pressure	:	Not applicable	
Relati	ive vapor density	:	Not applicable	
Relati	ive density	:	No data available	9
Densi	ity	:	No data available	9
	ility(ies) ater solubility	:	No data available	9
	ion coefficient: n- ol/water	:	Not applicable	
	oi/water gnition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	2
Visco Vis	sity scosity, kinematic	:	Not applicable	
Explo	sive properties	:	Not explosive	



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С	Dxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.		
N	/lolecul	ar weight	:	No data available	9		
	Particle characteristics Particle size			No data available			
SECT	ION 1). STABILITY AND RE	AC	ΤΙVITY			
C P		ity al stability ity of hazardous reac-	: :	Stable under norm May form explosing handling or other	ve dust-air mixture during processing,		
С	Conditio	ons to avoid	: Heat, flames and sparks. Avoid dust formation.				
Н	Incompatible materials Hazardous decomposition products			 Avoid dust formation. Oxidizing agents No hazardous decomposition products are known. 			
SECT	ION 1	1. TOXICOLOGICAL I	NFC	RMATION			
	nforma exposu	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact			
		oxicity ssified based on availa	ble i	nformation.			
<u>c</u>	Compo	nents:					
S	Seleniu	ım:					
A	Acute o	ral toxicity	:	LD50 (Rat): > 5.00 Method: OECD Te			
A	Acute ir	ute inhalation toxicity : LC50 (Rat): > 5,67 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OPPTS 870.1300					
S	Skin co	prrosion/irritation					
		ssified based on availa	ble i	nformation.			

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

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Selenium Solid Formulation

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<u>Compo</u>	nents:			
Seleniu	m:			
Test Ty	pe	:	Local lymph node	e assay (LLNA)
	of exposure	:	Skin contact	
Species		:	Mouse	
Method Result		÷	OECD Test Guid negative	eline 429
Remark	S	:		om similar materials
Germ c	ell mutagenicity			
Not clas	sified based on availa	ble	information.	
<u>Compo</u>	nents:			
Seleniu	m:			
Genoto	kicity in vitro	:		rial reverse mutation assay (AMES) Fest Guideline 471
	ogenicity sified based on availa	ıble	information.	
Reprod	uctive toxicity			
-	sified based on availa	ble	information	
Compo				
Seleniu				
	on fertility	:	Species: Rat	generation reproduction toxicity study
			Application Route	e: Ingestion
			Result: negative Remarks: Based	on data from similar materials
Effects	on fetal development	:	Test Type: Embr Species: Mouse	yo-fetal development
			Application Route	e: Ingestion
			Result: negative	-
			Remarks: Based	on data from similar materials
STOT-s	ingle exposure			
Not clas	sified based on availa	ble	information.	
STOT-r	epeated exposure			
Not clas	sified based on availa	ble	information.	
<u>Compo</u>	nents:			
	m:			
Seleniu			May aguag dama	
Seleniu Assessr	nent	:	exposure.	age to organs through prolonged or repeated

SAFETY DATA SHEET



Selenium Solid Formulation

3	28.09.2024	11	093349-00007	Date of first issue: 21.11.2022	
-	ation toxicity				
Not cla	assified based on availa	ble	information.		
ECTION	12. ECOLOGICAL INFO	DRN	IATION		
Ecoto	oxicity				
	oonents:				
Selen					
	ty to fish	:	Exposure time: 9 Test substance: Method: OECD	chus mykiss (rainbow trout)): > 0,0262 mg/ 96 h Water Accommodated Fraction Fest Guideline 203 cicity at the limit of solubility.	
	ty to daphnia and other ic invertebrates	:	Exposure time: 4 Test substance: Method: OECD	magna (Water flea)): > 0,1603 mg/l l8 h Water Accommodated Fraction Fest Guideline 202 ticity at the limit of solubility.	
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7 Test substance:	irchneriella subcapitata (algae)): > 0,00173 '2 h Water Accommodated Fraction Fest Guideline 201	
Toxici icity)	ty to fish (Chronic tox-	:	mg/l Exposure time: 2 Test substance:	nchus mykiss (rainbow trout)): >= 0,00157 28 d Water Accommodated Fraction cicity at the limit of solubility.	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia magna (Water flea)): >= 0,00342 mg Exposure time: 21 d Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility.		
Toxici	ty to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials		
Ecoto	xicology Assessment				
	ic aquatic toxicity	:		lasting harmful effects to aquatic life. on national or regional regulation.	

No data available



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	accumulative potential					
	ility in soil ata available					
	er adverse effects ata available					
SECTION	13. DISPOSAL CONSI	DERATI	ONS			
Disp	osal methods					
Wast	te from residues			f waste into sewer. cordance with local regulations.		
Cont	aminated 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	I 14. TRANSPORT INFO	ORMATIC	ON			
Inter	national 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.					
•	Special precautions for user Not applicable					

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture					
Argentina. Carcinogenic Subs Registry.	: Not applicable				
Control of precursors and essential chemicals for the : Not applicable preparation of drugs.					
The ingredients of this product are reported in the following inventories:					
AICS	: not determined	Ū			
DSL	: not determined				
IECSC	: not determined				



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SECTION	16. OTHER INFORMA	ΓΙΟΝ		
	ion Date format		9.2024 m.yyyy	
Sourc compi Data S		eChe cy, h		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
ACGII AR BE AR OI	El	: USA : Arge : Arge	ntina. Biolog ntina. Occup	eshold Limit Values (TLV) ical Exposure Indices ational Exposure Limits hted average
AR OL AIIC - Land Carcir Stand x% re ENCS x% gr tem; C - Inte Equip centra cal Su Maritin ganisa centra	EL / CMP - Australian Inventory of of Brazil; ASTM - Ame hogen, Mutagen or Re ardisation; DSL - Dome sponse; ELx - Loading - Existing and New C owth rate response; EF GLP - Good Laboratory rnational Air Transport ment of Ships carrying ation; ICAO - Internatior ubstances in China; IM me Organization; ISHL ation for Standardizatio ation to 50 % of a test p	: TLV of Industria productive stic Subst prate ass hemical S G - Emer Practice; I Associat Dangerou al Civil Av DG - Inter - Industria n; KECI - population	(Threshold L al Chemicals ety for the T arces List (C ociated with ubstances (gency Respond ARC - Intern ion; IBC - I us Chemicals viation Organ rnational Ma al Safety and Korea Exist ; LD50 - Let	

centration 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; 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

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



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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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