

Version 3.3	Revision Date: 06.04.2024		S Number: )93358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022
Section 1	l: Identification			
Prod	Product name		Selenium (10%)	Solid Formulation
Othe	r means of identification	:	Coopers Permat	race Selenium Pellets for Cattle (47640)
Man	ufacturer or supplier's d	letai	ils	
Com	pany	:	MSD	
Addr	ess	:	33 Whakatiki Str Upper Hutt - Nev	eet - Private Bag 908 v Zealand
Tele	phone	:	0800 800 543	
Eme	rgency telephone number	• :	0800 764 766 (0 CHEMCALL)	800 POISON) 0800 243 622 (0800
E-ma	ail address	:	EHSDATASTEW	/ARD@msd.com
Reco	ommended use of the ch	nem	ical and restriction	ons on use
	ommended use rictions on use	:	Veterinary produ Not applicable	ct
Section 2	2: Hazard identification			
GHS	Classification			
	ific target organ toxicity - ated exposure	:	Category 2	
GHS	label elements			
Haza	ard pictograms	:		
Signa	al word	:	Warning	
Haza	ard statements	:	H373 May cause peated exposure	e damage to organs through prolonged or re-
Prec	autionary statements	:	Response:	

P314 Get medical advice/ attention if you feel unwell.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.



Version	Revision Date:	SDS Number:	Date of last issue: 22.11.2023
3.3	06.04.2024	11093358-00007	Date of first issue: 21.11.2022

#### 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	>= 10 -< 20

#### Section 4: First-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause damage to organs through prolonged or repeated exposure. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically 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-	:	Metal oxides



Versior 3.3		Revision Date: 06.04.2024		S Number: 093358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022
uc	cts				
Sp od	•	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 so.	
	pecial p or firefigl	rotective equipment nters	:	Evacuate area.	e, wear self-contained breathing apparatus. ective equipment.
Sectio	on 6: Ac	cidental release me	eası	ires	
tiv	ve equip	precautions, protec- oment and emer- ocedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).	
Er	Environmental precautions		:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.	
	Methods and materials for containment and cleaning up		:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces
Sectio	on 7: Ha	Indling and storage			
Τe	Technical measures		:	causing an explos	precautions, such as electrical grounding

Local/Total ventilation
Advice on safe handling
Do not breathe dust, fume, gas, mist, vapours 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



Versio 3.3	n Revision Date: 06.04.2024	SDS Number: 11093358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022	
	ygiene measures	Keep containe Keep away fre Take precauti Take care to p environment. If exposure to flushing syste place. When using c Wash contarr The effective engineering c appropriate d industrial hyg use of admini	e generation and accumulation. er closed when not in use. om heat and sources of ignition. onary measures against static discharges. orevent spills, waste and minimize release to the chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.	
	onditions for safe storage laterials to avoid	<ul> <li>Keep in properly labelled containers.</li> <li>Store in accordance with the particular national regula</li> <li>Do not store with the following product types: Strong oxidizing agents</li> </ul>		
		Strong oxidizi	ng agents	

## Section 8: Exposure controls/personal protection

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Selenium	7782-49-2	WES-TWA	0.02 mg/m3 (selenium)	NZ OEL
	Further inform	ation: Skin abso	rption	
		TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm2	Internal
		TŴA	0.2 mg/m3 (selenium)	ACGIH

Engineering measures	<ul> <li>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.</li> <li>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).</li> <li>Minimize open handling.</li> </ul>
	Minimize open nandling.

## Personal protective equipment

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type
Hand protection		



Versio 3.3	on	Revision Date: 06.04.2024	-	S Number: )93358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022		
	Mate	erial	:	Chemical-resistar	it gloves		
E	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			
S	Skin and body protection			aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.			
Section	on 9: I	Physical and chemica	l pr	operties			
A	Appear	ance	:	pellets			
C	Colour		:	silver			
				grey			
C	Odour		:	No data available	)		
C	Odour <sup>-</sup>	Threshold	:	No data available	)		
p	ъΗ		:	No data available	)		
Ν	Melting	point/freezing point	:	No data available	)		
	Initial boiling point and boiling range		:	No data available			
F	-lash p	oint	:	Not applicable			
E	Evapor	ation rate	:	Not applicable			
F	Flammability (solid, gas) : May form explosive dust-air mixture during processi dling or other means.						
F	Flamma	ability (liquids)	:	Not applicable			
		explosion limit / Upper bility limit	:	No data available			





Version 3.3	Revision Date: 06.04.2024	SDS Number: 11093358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022	
Rela	tive vapour density	: Not applicat	ble	
Rela	tive density	: No data ava	ilable	
Dens	sity	: No data ava	ilable	
	bility(ies) /ater solubility	: No data ava	ilable	
	tion coefficient: n- nol/water	: Not applicat	ble	
	-ignition temperature	: No data ava	ilable	
Deco	omposition temperature	: No data ava	ilable	
Visco V	osity iscosity, kinematic	: Not applicat	ble	
Explo	osive properties	: Not explosiv	re la	
Oxid	izing properties	: The substar	nce or mixture is not classified as oxidizing.	
Mole	cular weight	: No data ava	ilable	
	cle characteristics cle size	: No data ava	ilable	

# Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents

## Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact
	Ingestion
	Eye contact

### Acute toxicity

Not classified based on available information.



ersion .3	Revision Date: 06.04.2024		OS Number: 093358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022	
<u>Com</u>	ponents:				
Seler	nium:				
Acute	e oral toxicity	:	LD50 (Rat): > 5 Method: OECD	,000 mg/kg Test Guideline 401	
Acute inhalation toxicity		:	LC50 (Rat): > 5.67 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OPPTS 870.1300		
Not c	corrosion/irritation lassified based on av				
	ous eye damage/eye lassified based on av				
	iratory or skin sens				
-	sensitisation	insure	, , , , , , , , , , , , , , , , , , ,		
-	lassified based on av	ailable	information.		
-	<b>iratory sensitisatio</b> r lassified based on av		information.		
Com	ponents:				
Seler Test Expos Speci Metho Resu Resu	Type sure routes ies od It		Skin contact Mouse OECD Test Gui negative	de assay (LLNA) deline 429 from similar materials	
Chro	nic toxicity				
	n cell mutagenicity lassified based on av	ailable	information		
	ponents:	anabio			
Seler					
	toxicity in vitro	:		erial reverse mutation assay (AME Test Guideline 471	

## Carcinogenicity

Not classified based on available information.

## Reproductive toxicity

Not classified based on available information.

aquatic invertebrates



# Selenium (10%) Solid Formulation

/ersion 3.3	Revision Date: 06.04.2024		9S Number: 093358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022		
<u>Com</u>	ponents:					
Seler	nium:					
Effec	ts on fertility	:	Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion on data from similar materials		
Effec ment	Effects on foetal develop- ment		Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials			
	<b>Γ - single exposure</b> lassified based on availa	ıble	information.			
STO	F - repeated exposure					
May	cause damage to organs	thr	ough prolonged or	repeated exposure.		
<u>Com</u>	ponents:					
Seler	nium:					
	ssment	:	May cause dama	ge to organs through prolonged or repeated		
Rema	arks	:	exposure. Based on nationa	al or regional regulation.		
•	ration toxicity					
Not c	lassified based on availa	ble	information.			
ction 1	2: Ecological information	on				
Ecot	oxicity					
Com	ponents:					
Seler	nium:					
Toxic	ity to fish	:	Exposure time: 9 Test substance: Method: OECD T	chus mykiss (rainbow trout)): > 0.0262 mg/l 6 h Water Accommodated Fraction Test Guideline 203 icity at the limit of solubility		
	ity to daphnia and other	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): > 0.1603 mg/l		

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

Exposure time: 48 h



ersion 3	Revision Date: 06.04.2024		OS Number: 093358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022	
plants	5			72 h Water Accommodated Fraction Test Guideline 201	
Toxicity to fish (Chronic tox- icity)		:	NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0015 mg/l Exposure time: 28 d Test substance: Water Accommodated Fraction Remarks: No toxicity at the limit of solubility		
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)			NOEC (Daphnia magna (Water flea)): >= 0.00342 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility		
Toxic	ity to microorganisms	:	Exposure time: 3 Method: OECD	sludge): > 100 mg/l 3 h Test Guideline 209 d on data from similar materials	
Ecoto	oxicology Assessment	t			
Chror	nic aquatic toxicity	:		lasting harmful effects to aquatic life. I on national or regional regulation.	
	stence and degradabi	lity			
	ccumulative potential ata available				
	<b>lity in soil</b> ata available				
	r <b>adverse effects</b> ata available				

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

## Section 14: Transport information

# International Regulations



Version Revision Date: 3.3 06.04.2024		DS Number: 093358-00007	Date of last issue: 22.11.2023 Date of first issue: 21.11.2022
UNRTDG			
UN number		Not applicable	
Proper shipping name	:	Not applicable	
Class	÷	Not applicable	
Subsidiary risk	÷	Not applicable	
Packing group	:	Not applicable	
Labels	:	Not applicable	
Environmentally hazardous	:	no	
IATA-DGR			
UN/ID No.	:	Not applicable	
Proper shipping name	÷	Not applicable	
Class	:	Not applicable	
Subsidiary risk	:	Not applicable	
Packing group	:	Not applicable	
Labels	:	Not applicable	
Packing instruction (cargo aircraft)	:	Not applicable	
Packing instruction (passen- ger aircraft)	:	Not applicable	
IMDG-Code			
UN number	:	Not applicable	
Proper shipping name	:	Not applicable	
Class	:	Not applicable	
Subsidiary risk	:	Not applicable	
Packing group	:	Not applicable	
Labels	:	Not applicable	
EmS Code	:	Not applicable	
Marine pollutant	:	Not applicable	
Transport in bulk according	g to	Annex II of MAR	POL 73/78 and the IBC Code

Not applicable for product as supplied.

## National Regulations

NZS 5433 UN number Proper shipping name Class Subsidiary risk Packing group Labels	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
Labels Hazchem Code	:	Not applicable

### Special precautions for user

Not applicable

Section 15: Regulatory information

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



Version	Revision Date:	SDS Number:	Date of last issue: 22.11.2023
3.3	06.04.2024	11093358-00007	Date of first issue: 21.11.2022

### HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL) Not applicable

### HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

#### Section 16: Other information

Revision Date	:	06.04.2024				
Further information						
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/				
Date format	:	dd.mm.yyyy				
Full text of other abbreviation	Full text of other abbreviations					
ACGIH NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants				
ACGIH / TWA NZ OEL / WES-TWA	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average				

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



Version	Revision Date:	SDS Number:	Date of last issue: 22.11.2023
3.3	06.04.2024	11093358-00007	Date of first issue: 21.11.2022

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

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.

NZ / EN