

# SAFETY DATA SHEET

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SECTION											
Product Name						1		.1	1		
CAS #: 1313-2	-	-			· · .		:	· · .			· · .
Relevant ident		Ses of t	ine subs	tance: S	scienti	ric resea	rcn and	aevei	opment	1	· · ·
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SECTION Classification o The substance Label elements	<b>2. H</b> f the su is not c	<b>AZAI</b> bstance lassified	RDS II e or mixtu d accordi	<b>DENT</b> ure	FIFIC	ATIO	N onized \$	System	(GHS).		
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SECTION Classification o The substance Label elements GHS label elem Hazard pictogra Signal word not Hazard stateme Precautionary s	<b>2. H</b> f the su is not c nents not ams not t applica ents not	<b>AZAI</b> bstance lassified ot applica able applica nts	RDS II e or mixtu d accordi cable able	DENT ure ng to the	Globa	ATIO	N onized \$	System	(GHS).		
<b>SECTION</b> Classification o The substance Label elements GHS label elem Hazard pictogra Signal word not	<b>2. H</b> f the su is not c nents not ams not t applica ents not stateme et in eye	AZAI bstance lassified ot applica able applica nts es, on sl	RDS II e or mixtu d accordi cable able able	DENT ure ng to the	<b>FIFIC</b> Globa	ATIO	N onized S	System	(GHS).		

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

	1.1		 1.1	1	 	
Classi	fication s	ystem:				

NFPA ratings	s (scale 0 - 4)
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:		1.1.1
Healt	h = 0	

Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances

CAS No. Description

1313-22-0 Manganese(II) selenide (99.9%-Mn)

Identification number(s)

EC number: 215-203-1

### SECTION 4. FIRST AID MEASURES

Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing: If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

# **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

### **SECTION 7. HANDLING AND STORAGE**

Handling:

Precautions for safe handling No special measures required. Information about protection against explosions and fires: No special measures required. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s) No further relevant information available.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the

preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of

quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

				. '		1				
Information on basic ph	ysical									
General Information	· · .			· · ,	<sup>1</sup>	:	· · .	:	11	
Appearance:	1		`;	1		1	1		1	
Form: Crystalline										
Color: Black	.:					111		 		
Odor: Odorless										
Odor threshold: Not det	ermine	ed.pH-valu	ie: Not	applica	ble.		· · · .		11.	
Change in condition	1		`: :				1	1	1	
Melting point/Melting ra	nge: n	o data °C								
Boiling point/Boiling ran	ge: no	data °C	1.1.1	1		111		 111		
Flash point: Not applica	ble.							 		
Flammability (solid, gas	eous):									
Ignition temperature:	1 1						1	 1	1.1	
Decomposition tempera	ture: N	lot determ	nined.							
Auto igniting: Not deterr	nined.	н н н				111		111		
Danger of explosion: Pr	oduct	does not p	oreșent	anjexp	losion ha	azard.	· · .	 :	· · .	

				1				1 1 1		
Explosion limits:		: 1	· · .		1	· · .			· · .	
Lower: Not determined										
Upper: Not determined	тал дал I.									
Vapor pressure: not ap	opli hPa									
Density: Not determine	ed.	1	. '	1 1	,			1		
Relative density Not de	etermined.	÷.	· · .	<sup>1</sup>		· · .			· · .	
Vapor density Not appl	licable.	· .	·		· .	·			·	
Evaporation rate Not a	pplicable.	,		,						
Solubility in / Miscibility	v with									
Water: Insoluble.						,			,	
Partition coefficient (n-	octanol/water): N	lot dete	rmined.		1 <sup>1</sup>	· · · .	<sup>1</sup>	1	· · · ·	
Viscosity:	the second	1	1		· :	1		· :	1	
Dynamic: Not applicab	le.									
Kinematic: Not applica	ble.		.1		: * *					
Solvent content:										
Organic solvents: 0.0 %	%	;								
VOC content: 0.0 g/l / (	0.00 lb/gl		1			1			1	
Solids content: 100.0 %	6									
Other information No fo	urther relevant in	formatio	on avail	able.				111		
	and the second s	:				· · · .			· · .	
SECTION 10. S		ΔΝΓ				·		• .	·	
Reactivity No further re Chemical stability	elevant informatio	on availa	able.			:				
Chemical stability			ı			,			,	
Thermal decomposition	n / conditions to I	be avoid	led: No	decomp	osition i	f used a	according	g to	11	
specifications. Possibility of hazardou	s reactions No d							:	1	
Conditions to avoid No	further relevant	informa	tion ava	ailable.			1			
Incompatible materials	: No further relev	ant info	rmation	availabl		. '	н н н	·	. '	
Hazardous decomposi	tion products: No	o dange	rous de	composi	tion proc	ducts kr	nown.	e e e	· · .	

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effect	sts		·						'
Acute toxicity:									
Primary irritant effect:									
on the skin: No irritant effect.		;	· · .				'	:	•••
on the eye: No irritating effect.									
Sensitization: No sensitizing effe					;			:	
Additional toxicological information	on:								
When used and handled according				product d					. '
effectsaccording to our experience	• ·			•		··.		e.	•••
The substance is not subject to c									
Carcinogenic categories						·			·
IARC (International Agency for R	esearch	on Can	cer)						
Substance is not listed.				н н н					
NTP (National Toxicology Progra	am)	:	· · ·		:	· · .	·'	:	•••
Substance is not listed.		· .			· .	·		· .	•
OSHA-Ca (Occupational Safety &	& Health	Admini	stration	)	,				
Substance is not listed.		1.1.1				, i		;**	.:
and the set of the set			· · ·			· · .			· · .
SECTION 12. ECOLO	GICA	LIN	FOR	MATIC	<b>N</b>	·		1.	·
Toxicity				,	ł		1		
Aquatic toxicity: No further releva	ant inform	ation a	vailable	9.		.:		; • •	.:
Persistence and degradability No	lable.								
Behavior in environmental syster	ns:			· · · '		· · .			· · .
Bioaccumulative potential No fur		ant info	ormatio	n available	e.	1		· .	·
Mobility in soil No further relevan									
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Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment		•••		:	· · .		e l'	· · .	
PBT: Not applicable.									
vPvB: Not applicable.				1	1.1	111	1	1	. '
Other adverse effects No further relevan	nt infor	mation	available	).					
	1 1 1			1					
$(1,1,2,\ldots,n^{n-1}) = (1,1,2,\ldots,n^{n-1})$		· · .			· · .		: <sup>1</sup>	· · .	
SECTION 13. DISPOSAL	CON	ISID	ERAT	IONS					
Waste treatment methods		<u> </u>							. '
Recommendation: Disposal must be ma	ide acc	cording	to officia	l regulati	ons.				
Uncleaned packagings:									
Recommendation: Disposal must be ma	ide acc	cording	to officia	l regulati	ons.		ť	· · · .	
SECTION 14. TRANSPOR		IFOF	RMAT			. :			
UN-Number									
DOT, ADN, IMDG, IATA not regulated	i			i					
UN proper shipping name	1	1.11			1			1	. '
DOT, ADN, IMDG, IATA not regulated									
Transport hazard class(es)		. 1					111		
DOT, ADN, IMDG, IATA									
Class not regulated									
Packing group		'			<b>'</b>			1	
DOT, IMDG, IATA not regulated									
Environmental hazards:									
Marine pollutant: No		· · · .			· · .	1.1	e l'	· · .	
Special precautions for user Not applica	ble.				·		· .	·	
Transport in bulk according to Annex II o				:					
MARPOL73/78 and the IBC Code Not a	pplical	ole.							
UN "Model Regulation": not regulated									

## SECTION 15. REGULATORY INFORMATION

Safety, health and environm	ental regulati	ons/leg	islation	specific for	or;the s	ubstan	ce or mixt	ure	1	,
Sara										
Section 355 (extremely haza	ardous substa	ances):		н 1 - 1		.:		: ' '		,
Substance is not listed.										
Section 313 (Specific toxic o	hemical listin	gs):								
Substance is not listed.		1	1 		`;	1 			1	,
TSCA (Toxic Substances Co										
Substance is listed.	1 1 - 1			н н н						
Proposition 65		1	· · .			· · .		:	· · .	,
Chemicals known to cause of										
Substance is not listed.		:								
Chemicals known to cause r	eproductive t	oxicity	for fem	ales:		:				
Substance is not listed.				· · ·						
Chemicals known to cause r	eproductive t	oxicity	for male	es:	1	· · .		:	· · .	
Substance is not listed.			·			·			·	
Chemicals known to cause of	developmenta	al toxici	ty:							
Substance is not listed.						.:			.:	
Carcinogenic categories										
EPA (Environmental Protect	ion Agency)					· · ·			· · .	
Substance is not listed.			1		`;;	·			1	
TLV (Threshold Limit Value	established b	y ACG	IH)							
Substance is not listed.						.:		: ' '		,
NIOSH-Ca (National Institute	e for Occupat	ional S	afety a	nd Health)	)					
Substance is not listed.		,			,	1		1		
GHS label elements not app	licable	`	1		`.	1 			1 1	,
Hazard pictograms not appli	cable									
Signal word not applicable	н 1 - 1							111	1	
Hazard statements not appli	cable	1			;	· · .		:		,

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.