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1 Identification

· Product identifier

- Trade name: Silver Tungstate on Magnesium Oxide
- · Article number 02401344
- $\cdot \textit{Application of the substance / the mixture } Laboratory \ chemicals$
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer, Inc. 710 Bridgeport Avenue Shelton, Connecticut 06484 USA CustomerCareUS@perkinelmer.com • **Emergency telephone number:** CHEMTREC (within US) 800-424-9300

CHEMIREC (within US) 800-424-9500CHEMTREC (from outside US) +1 703-527-3887 (call collect) CHEMTREC (within AU) +(61)-290372994

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Irrit. 2 H3	15 Causes skin irritation.
Eye Irrit. 2A H3.	19 Causes serious eye irritation.
STOT SE 3 H3.	35 May cause respiratory irritation.
· Label elements	
	nts The product is classified and labeled according to the Globally Harmonized System (GHS).
• Hazard pictograi	
• Signal word War	•
• Hazard statemen	
H315 Causes skir	
	ious eye irritation.
•	respiratory irritation.
· Precautionary sto	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves / eye protection / face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P33	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
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.
· Classification sys	
· NFPA ratings (se	cale 0 - 4)
	alth = 2
	re=0
	activity = 0
	(Contd. on page 2)



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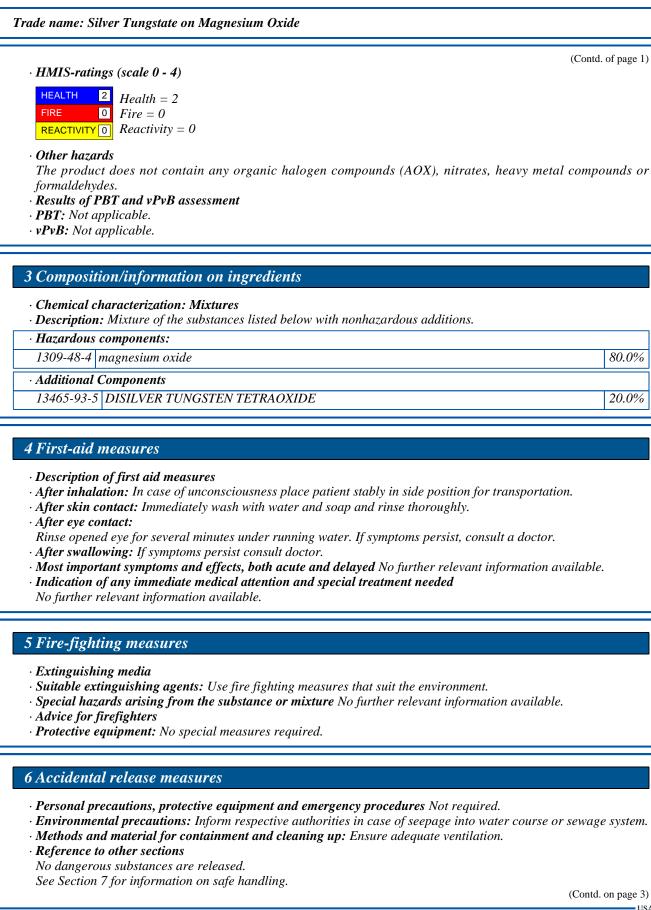
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80.0%

20.0%

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See Section 8 for information on personal protection equipment. See Section 13 for disposal information. • Protective Action Criteria for Chemicals	(Contd. of page 2)
• PAC-1:	
1309-48-4 magnesium oxide	30 mg/m ³
· PAC-2:	
1309-48-4 magnesium oxide	120 mg/m ³
· PAC-3:	
1309-48-4 magnesium oxide	730 mg/m ³

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · 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: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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:

1309-48-4 magnesium oxide

- PEL Long-term value: 15* mg/m³ fume; *total particulate
- *TLV* Long-term value: 10* mg/m³ *as inhalable fraction
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

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

• Eye protection:



Tightly sealed goggles or safety glasses

	-1	
Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Solid	
Color:	Grey	
Odor:	undistinguishable	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
	Not determined. Not applicable.	

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		(Contd. of page 4)
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wa	tter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
VOC content:	0.00 %	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- \cdot on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- \cdot Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. • Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **I BI**: Not applicable.

• vPvB: Not applicable.

 \cdot Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Dispose of container and materials in accordance with local, regional and national regulations.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

14 Transport information

14 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.	
· UN "Model Regulation":	Non regulated according to above specifications. Void	

15 Regulator	y information	
· Safety, heal	th and environmental regulations/legislation specific for the substance or mixture	
1309-48-4	magnesium oxide	80.0%
13465-93-5	DISILVER TUNGSTEN TETRAOXIDE	20.0%



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Section 355 (ex	tremely hazardous substances):
None of the ingr	edients is listed.
Section 313 (Sp	ecific toxic chemical listings):
None of the ingr	
	ubstances Control Act):
1309-48-4 mag	
*	t Century Act) (Substances not listed)
Proposition 65	(Century Act) (Substances not tisted)
-	wn to cause cancer:
None of the ingr	redients is listed.
Chemicals know	vn to cause reproductive toxicity for females:
None of the ingr	
Chemicals know	vn to cause reproductive toxicity for males:
None of the ingr	
Chemicals know	vn to cause developmental toxicity:
None of the ingr	· ·
Cancerogenity	rategories
	nental Protection Agency)
None of the ingr	
	Limit Value established by ACGIH)
1309-48-4 mag	· · · · · · · · · · · · · · · · · · ·
	tional Institute for Occupational Safety and Health)
None of the ingr	
• •	ents The product is classified and labeled according to the Globally Harmonized System (GHS
Hazard pictogra	
Signal word Wa	
Hazard stateme	
H315 Causes sk	in irritation.
	rious eye irritation.
	e respiratory irritation.
Precautionary s	tatements
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
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D210	and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P403+P233 P501	Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/internatic
	regulations.

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

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ISO 11014:2009 and GHS 2007

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• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

16 Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer shall not be held liable for any damage resulting from handling or from contact with the product.

· Contact:

With in the USA: 1-(800)-762-4000 Out side the USA: 1-(203)-712-8488 · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 • * Data compared to the previous version altered.