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acc. to OSHA HCS

Printing date 07/27/2021

Review date 07/27/2021

, v	1
· Product identif	ier
	TD 1 MG/L SELENIUM IN 2% HNO3 125ML
• Article number	
· Application of i	the substance / the mixture Laboratory chemicals
• Details of the st • Manufacturer/	upplier of the safety data sheet Supplier:
PerkinElmer, Ir	С.
710 Bridgeport	
	cticut 06484 USA
	JS@perkinelmer.com
203-925-4600	
• Emergency tele	
	vithin US) 800-424-9300
	rom outside US) +1 703-527-3887 (call collect) yithin AU) +(61)-290372994
CHEMIKEC (V	Aunin AO) + (01)-290372994
e Hazard(s) id	ontification
11uzuru(s) iu	chujication
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	f the substance or mixture 315 Causes skin irritation.
Skin Irrit. 2 H	315 Causes skin irritation.
Skin Irrit. 2 H Eye Irrit. 2A H	
Skin Irrit. 2 H Eye Irrit. 2A H	315 Causes skin irritation. 319 Causes serious eye irritation.
Skin Irrit. 2 H Eye Irrit. 2A H • Label elements • GHS label elem	315 Causes skin irritation. 319 Causes serious eye irritation. Sents The product is classified and labeled according to the Globally Harmonized System (GHS)
Skin Irrit. 2 H Eye Irrit. 2A H • Label elements • GHS label elem • Hazard pictogr	315 Causes skin irritation. 319 Causes serious eye irritation. The product is classified and labeled according to the Globally Harmonized System (GHS) Tams GHS07
Skin Irrit. 2 H Eye Irrit. 2A H • Label elements • GHS label elem • Hazard pictogr • Signal word Wa	315 Causes skin irritation. 319 Causes serious eye irritation. The product is classified and labeled according to the Globally Harmonized System (GHS) ams GHS07 Trning
Skin Irrit. 2 H Eye Irrit. 2A H • Label elements • GHS label elem • Hazard pictogr • Signal word Wa • Hazard statemed	315 Causes skin irritation. 319 Causes serious eye irritation. The product is classified and labeled according to the Globally Harmonized System (GHS) ams GHS07 urning nts
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Skin Irrit. 2 H Eye Irrit. 2A H Eye Irrit. 2A H Label elements GHS label elem Hazard pictogr Signal word Wa Hazard stateme H315 Causes sh H319 Causes se Precautionary s P264 P280 P302+P352 P321 P305+P351+P	 315 Causes skin irritation. 319 Causes serious eye irritation. ans GHS07 ans GHS07 ans irritation. crious eye irritation. crious eye irritation. criatements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if press
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• HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE0Fire = 0REACTIVITY0Reactivity = 0

· Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

• Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• vPvB: Not applicable.

3 Composition/information on ingredients

• Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

• Hazardous	components:	
7697-37-2	Nitric Acid Ox. Liq. 2, 1 Skin Corr. 1	H272 IA, H314
• Additional	Components	
7732-18-5	Water	97.9999%
7782-49-2		0.0001%
	Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 4, H413	

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult 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.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.

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· Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
 Environmental precautions:

 Inform respective authorities in case of seepage into water course or sewage system.
 Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Reference to other sections
 See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

I TOLECHIVE A	action Crueria for Chemicals	
• PAC-1:		
7697-37-2	Nitric Acid	0.16 ppm
7782-49-2	selenium	0.6 mg/m^3
· PAC-2:		
7697-37-2	Nitric Acid	24 ppm
7782-49-2	selenium	$6.6 \ mg/m^3$
· PAC-3:		
7697-37-2		92 ppm
7782-49-2	selenium	40 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.

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(Contd. of page 3) · Control parameters • Components with limit values that require monitoring at the workplace: 7697-37-2 Nitric Acid PEL Long-term value: 5 mg/m³, 2 ppm *REL* Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm TLV Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm • 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: Not required. 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 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance:

- Form:
- Color:
- · Odor:

Liquid Clear Characteristic

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		(Contd. of page
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	98.0 %	
VOC content:	0.00 %	
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.

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Trade name: STD 1 MG/L SELENIUM IN 2% HNO3 125ML

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

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

7782-49-2 selenium

· 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.*
- · Behavior in environmental systems:
- · *Bioaccumulative potential* No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 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.

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• Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information	
UN-Number DOT, ADR, IMDG, IATA	UN3264
UN proper shipping name	
DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
IMDG, IATA	(Nitric Acid) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitr
IMDO, IAIA	Acid)
Transport hazard class(es)	· · ·
DOT	
1 Alexandree	
A A A A A A A A A A A A A A A A A A A	
Class	8 Corrosive substances
Label	8
ADR	
and the second s	
\mathbf{V}	
Class	8 (C1) Corrosive substances
Label	8
IMDG, IATA	
\wedge	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code).	: 80
EMS Number:	F-A,S-B
Segregation groups	Acids
Stowage Category	A



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· Stowage Code	SW2 Clear of living quarters.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· ADR · Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (NITRIC ACID), 8, III

Safety, he	ealth and environmental regulations/legislation specific for the substance or r	nixture
7732-18	5 Water	97.9999%
7697-37	2 Nitric Acid	2.0%
7782-49	 2 selenium Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 4, H413 	0.0001%
Sara		
	55 (extremely hazardous substances):	
7697-37	2 Nitric Acid	
Section 3	13 (Specific toxic chemical listings):	
7697-37	2 Nitric Acid	
7782-49	2 selenium	
TSCA (T	oxic Substances Control Act):	
7732-18	5 Water	ACTIVI
7697-37-	2 Nitric Acid	ACTIVI
7782-49	2 selenium	ACTIVI
Hazardoi	is Air Pollutants	·
None of t	he ingredients is listed.	



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D

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

7782-49-2 selenium

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

· Information about limitation of use:

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

• Water hazard class: Generally not 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.

· Department issuing SDS: Environmental, Health and Safety

Contact:
Within the USA: 1-(800)-762-4000
Outside 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 Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances

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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 Ox. Liq. 2: Oxidizing liquids – Category 2 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A • * Data compared to the previous version altered.