

Printing date 04/15/2020

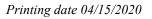
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1 Identification
· Product identifier
• Trade name: <u>STD -1 10000 MG/L SE IN 5% HNO3</u> • Article number N9304336 • Application of the substance / the mixture Laboratory chemicals
• Details of the supplier of the safety data sheet • Manufacturer/Supplier:
PerkinElmer, Inc. 710 Bridgeport Avenue Shelton, Connecticut 06484 USA CustomerCareUS@perkinelmer.com 203-925-4600 • Emergency telephone number: CHEMTREC (within US) 800-424-9300 CHEMTREC (from outside US) +1 703-527-3887 (call collect) CHEMTREC (within AU) +(61)-290372994
CHEMIREC (WIININ AC) +(01)-290372994
2 Hazard(s) identification
Classification of the substance or mixture Health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS05, GHS08 Signal word Danger
 Hazard-determining components of labeling: Nitric Acid selenium Hazard statements H314 Causes severe skin burns and eye damage. H373 May cause damage to organs through prolonged or repeated exposure. Precautionary statements P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.



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	D -1 10000 MG/L SE IN 5% HNO3
	(Contd. of page
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if preser
1000 1001	and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P314	Get medical advice/attention if you feel unwell.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 501	regulations.
· Classificatio	
	zs (scale 0 - 4)
	Health = 3
	Fire = 0
3	Reactivity = 0
. UMIS matin	$r_{\alpha}(r_{\alpha}, r_{\alpha}, r_{\alpha})$
· mmis-raing	gs (scale 0 - 4)
HEALTH 3	3 Health = 3
FIRE	Fire $= 0$
REACTIVITY	Reactivity = 0
· Other hazard	1
	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds of
formaldehyd	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds o
formaldehyd • Results of P	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds c es. BT and vPvB assessment
formaldehyd • Results of Pl • PBT: Not ap	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds c es. BT and vPvB assessment plicable.
formaldehyd • Results of P	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds c es. BT and vPvB assessment plicable.
formaldehyd • Results of Pl • PBT: Not ap	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds o es. BT and vPvB assessment plicable.
formaldehyd • Results of Pl • PBT: Not ap • vPvB: Not ap	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds c es. BT and vPvB assessment plicable.
formaldehyd • Results of Pl • PBT: Not ap • vPvB: Not ap 3 Compositio	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds c es. BT and vPvB assessment plicable. oplicable.
formaldehydd • Results of Pl • PBT: Not ap • vPvB: Not ap 8 Compositio • Chemical ch	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds c es. BT and vPvB assessment plicable. oplicable. on/information on ingredients aracterization: Mixtures
formaldehyd • Results of Pl • PBT: Not ap • vPvB: Not ap 8 Composition • Chemical ch • Description:	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds of es. BT and vPvB assessment plicable. oplicable. on/information on ingredients aracterization: Mixtures Mixture of the substances listed below with nonhazardous additions.
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formaldehydd Results of Pl PBT: Not ap vPvB: Not ap Composition Chemical ch Description: Hazardous c 7697-37-2 N	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds c es. BT and vPvB assessment plicable. oplicable. on/information on ingredients aracterization: Mixtures Mixture of the substances listed below with nonhazardous additions. omponents: litric Acid Ox. Liq. 2, H272
formaldehydd · Results of Pi · PBT: Not ap · vPvB: Not ap B Composition · Chemical ch · Description: · Hazardous c 7697-37-2 N	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds of es. BT and vPvB assessment plicable. oplicable. on/information on ingredients aracterization: Mixtures Mixture of the substances listed below with nonhazardous additions. omponents: litric Acid Ox. Liq. 2, H272 Skin Corr. 1A, H314
formaldehyd • Results of Pl • PBT: Not ap • vPvB: Not ap • vPvB: Not ap • chemical ch • Description: • Hazardous c 7697-37-2 N • 7782-49-2 s	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds ces. BT and vPvB assessment plicable. oplicable. on/information on ingredients aracterization: Mixtures Mixture of the substances listed below with nonhazardous additions. omponents: litric Acid Ox. Liq. 2, H272 Skin Corr. 1A, H314 elenium
formaldehydd · Results of Pi · PBT: Not ap · vPvB: Not ap · Chemical ch · Description: · Hazardous c 7697-37-2 N · 7782-49-2 s	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds of es. BT and vPvB assessment plicable. oplicable. oplicable. on/information on ingredients aracterization: Mixtures Mixture of the substances listed below with nonhazardous additions. omponents: litric Acid 5.0% OX. Liq. 2, H272 Skin Corr. 1A, H314 elenium 1.0% Acute Tox. 3, H301; Acute Tox. 3, H331
formaldehyd. • Results of Pl • PBT: Not ap • vPvB: Not ap • vPvB: Not ap • chemical ch • Description: • Hazardous c 7697-37-2 N • 7782-49-2 s	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds of es. BT and vPvB assessment plicable. pplicable. op/information on ingredients aracterization: Mixtures Mixture of the substances listed below with nonhazardous additions. omponents: Virtic Acid 5.0% OX. Liq. 2, H272 Skin Corr. 1A, H314 elenium 1.0% Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373
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formaldehyd • Results of Pi • PBT: Not ap • vPvB: Not ap 8 Composition • Chemical ch • Description: • Hazardous c 7697-37-2 N • 7782-49-2 s • A	does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds of es. BT and vPvB assessment plicable. pplicable. opplicable. on/information on ingredients aracterization: Mixtures Mixture of the substances listed below with nonhazardous additions. omponents: itric Acid OX. Liq. 2, H272 Skin Corr. 1A, H314 elenium Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373 quatic Chronic 4, H413

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4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a 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
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

<i>Aount respiratory protective device.</i> <i>Vear protective equipment. Keep unprotected persons away.</i> Environmental precautions: nform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.	
Environmental precautions: nform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.	
Dilute with plenty of water.	
Dilute with plenty of water.	
Aethods and material for containment and cleaning up:	
<i>Ibsorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).</i>	
Jse neutralizing agent.	
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
Reference to other sections	
ee Section 7 for information on safe handling.	
ee Section 8 for information on personal protection equipment.	
ee Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
7697-37-2 Nitric Acid	0.16 ppm
782-49-2 selenium	0.6 mg/m ³



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	(Contd. of page 3)
• PAC-2:	
7697-37-2 Nitric Acid	24 ppm
7782-49-2 selenium	6.6 mg/m ³
· PAC-3:	
7697-37-2 Nitric Acid	92 ppm
7782-49-2 selenium	40 mg/m^3

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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

· Com	ponents with limit values that require monitoring at the workplace:	
7697	-37-2 Nitric Acid	
PEL	Long-term value: 5 mg/m ³ , 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	
7782	-49-2 selenium	
PEL	Long-term value: 0.2 mg/m ³ as Se	
REL	Long-term value: 0.2 mg/m³ as Se	
TLV	Long-term value: 0.2 mg/m³ as Se	
· Addi	tional information: The lists that were valid during the creation were used as basis.	(Contd. on page 5)



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Boiling point/Boiling range:

(Contd. of page 4) · 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. Store protective clothing separately. Avoid contact with the eyes. 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. • 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: Liquid Clear Color: Odor: Characteristic · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined.

100 °C (212 °F)

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		(Contd. of page 5)
· 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:	94.0 %	
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.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- Acute toxicity:
- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.

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 \cdot on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· 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:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- 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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Trade name: STD -1 10000 MG/L SE IN 5% HNO3

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

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.
MDC LATA	(Nitric Acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nith Acid)
Transport hazard class(es)	,
DOT	
\wedge	
Class	8 Corrosive substances
Label	8
ADR	
\wedge	
0	
Class	8 (C1) Corrosive substances
Label	8
IMDG, IATA	
~	
A CONTRACTOR	
3	
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 (Kemle	
EMS Number: Segregation groups	F-A,S-B Acids
Segregation groups Stowage Category	Actas 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	f 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 s	substance or mixture
7732-18	5 Water	94.0%
7697-37	2 Nitric Acid Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%
7782-49-2	 2 selenium Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 4, H413 	1.0%
Sara		
Section 3	55 (extremely hazardous substances):	
7697-37-2	2 Nitric Acid	
Section 3	13 (Specific toxic chemical listings):	
7697-37-2	2 Nitric Acid	
7782-49-2	2 selenium	
TSCA (T	oxic Substances Control Act):	
7732-18	5 Water	ACTIVE
7697-37-2	2 Nitric Acid	ACTIVE
7782-49-2	2 selenium	ACTIVE
Hazardoi	is Air Pollutants	4



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Proposition 65
 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: 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.

· 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 IATA: International Air 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 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 * Data compared to the previous version altered.

USA -