

*

according to WHS Regulations

Printing date 28.07.2021

Revision: 28.07.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

I	dentification
·P	Product identifier
• A • R N	Frade name: <u>STD-CUS 1000 mg/l Multi Element - 500 ml</u> Article number: N9307116 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Laboratory chemicals
	Details of the supplier of the safety data sheet Aanufacturer/Supplier:
7 S C	PerkinElmer, Inc. 710 Bridgeport Avenue Shelton, Connecticut 06484 USA SustomerCareUS@perkinelmer.com 203-925-4600
S	Supplier/Local:
L 5 0 N A 1 a C C	PerkinElmer Australia Svl 2, Bldg 5, Brandon Office Park 330-540 Springvale Road Glen Waverley Aelbourne VIC 3150 Australia -800-033-391 nusales@perkinelmer.com Emergency telephone number: CHEMTREC (within US) 800-424-9300 CHEMTREC (from outside US) +1 703-527-3887 (call collect) CHEMTREC (within AU) +(61)-290372994
ŀ	Hazard(s) Identification
• (Classification of the substance or mixture
<	corrosion
S	Skin Corr. 1 H314 Causes severe skin burns and eye damage.
E	Eye Dam. 1 H318 Causes serious eye damage.
• 6	L <mark>abel elements</mark> G HS label elements The product is classified and labelled according to the Globally Harmonised System (GHS Hazard pictograms GHS05



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(Contd. of page 1) · Hazard-determining components of labelling: Nitric Acid · Hazard statements H314 Causes severe skin burns and eye damage. · Precautionary statements P260 Do not breathe dusts or mists. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. • 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 and Information on Ingredients

· Chemical characterisation: Mixtures

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

7697-37-2	Nitric Acid Ox. Liq. 2, H272	14 5.0%
Additional	Components	
7732-18-5	Water	94.83%
7439-91-0	lanthanum	0.01%
7439-92-1	lead 🚸 Repr. 1A, H360	0.01%
7439-93-2	lithium Water-react. 1, H260 Skin Corr. 1, H314	0.01%
7439-96-5	manganese	0.01%
7440-02-0	nickel Scarc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	0.01%
7440-20-2	Scandium from Sacndium Oxide	0.01%
7440-24-6	strontium	0.01%



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7440 20 2		(Contd. of pag
7440-38-2		0.019
	Acute Tox. 3, H301; Acute Tox. 3, H331	
7440-39-3	barium	0.019
	🛞 Water-react. 2, H261	
7440-41-7	beryllium	0.01
	Acute Tox. 3, H301; Acute Tox. 2, H330	
	🐼 Carc. 1B, H350; STOT RE 1, H372	
	🚯 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7440-43-9	cadmium	0.019
	🕉 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
7440-47-3	chromium	0.01
7440-48-4	cobalt	0.01
	left Resp. Sens. 1, H334	
	N Skin Sens. 1, H317	
7440-50-8	copper	0.01
7440-62-2	vanadium	0.01
7440-65-5	yttrium	0.01
7440-66-6	zinc	0.01
	𝔅 Pyr. Sol. 1, H250; Water-react. 1, H260	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

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. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 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 extinguishing methods suitable to surrounding conditions.
- 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.

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6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

• Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

• Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

• **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.

7 Handling and Storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection: 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 container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7697-37-2 Nitric Acid

WES Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm

• *Additional information:* The lists valid during the making 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.

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(Contd. of page 4) Avoid contact with the eves. Avoid contact with the eves and skin. • Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. 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 **9** Physical and Chemical Properties · Information on basic physical and chemical properties · General Information • Appearance: Form: Liquid Colour: Transparent **Odour:** Characteristic **Odour threshold:** Not determined. Not determined. · pH-value: · Change in condition Undetermined. *Melting point/freezing point:* Initial boiling point and boiling range: 100 °C · Flash point: Not applicable. · Flammability (solid, gas): Not applicable. Not determined. • Decomposition temperature: • Auto-ignition temperature: Product is not selfigniting. (Contd. on page 6) AU



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Explosive properties:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 •C:	23 hPa	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	94.8 %	
Solids content:	0.2 %	
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:
- · Skin corrosion/irritation Strong caustic effect on skin and mucous membranes.
- \cdot Serious eye damage/irritation
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- · Respiratory or skin sensitisation No sensitising effects known.

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• Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Corrosive

Irritant

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

12 Ecological Information

· Toxicity

• Aquatic toxicity: No further relevant information available.

- Persistence and degradability No further relevant information available.
- · Behaviour 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 sewage water or drainage ditch undiluted or unneutralised.

- · 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- *Recommendation: Disposal must be made according to official regulations.*

UN-Number	
ADG, IMDG, IATA	UN3264
UN proper shipping name	
ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (nitric acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O., (nitric acid)



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Transport hazard class(es)	
ADG	
\wedge	
3	
Class Label	8 (C1) Corrosive substances. 8
IMDG, IATA	· · · · · · · · · · · · · · · · · · ·
V	
Class	8 Corrosive substances.
Label	8
Packing group	111
ADG, IMDG, IATA	III
Environmental hazards:	λ7.
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code): EMS Number:	80 F-A,S-B
Segregation groups	Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of Mar	pol
and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: E1
	Maximum net quantity per inner packaging: 30 ml
T	Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 E
	5 1
Limited quantities (LQ)	5L Coder El
Excepted quantities (EQ)	Code: El Maximum not quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml



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• UN "Model Regulation":

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UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

15 Regulatory information

-						
· Safety, health and environmental regulations/legislation specific for the substance or mixture						
7732-18-5	Water		94.83%			
7697-37-2	Nitric Acid	🗞 Ox. Liq. 2, H272 🔆 Skin Corr. 1, H314	5.0%			
7439-91-0	lanthanum		0.01%			
Australia: Priority Existing Chemicals						
None of the	ingredients is listed.					

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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.

• Waterhazard 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· Relevant phrases

H250 Catches fire spontaneously if exposed to air.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H261 In contact with water releases flammable gases.
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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(Contd. of page 9) H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. · 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 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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 IATA: International Air Transport Association 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids – Category 2 Skin Corr. 1: Skin corrosion/irritation – Category 1 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 * * Data compared to the previous version altered.