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Hazardous according to criteria of Australian Safety and Compensation Council.

| Product identifier | | |
|--|--|--|
| Trade name: <u>SILVER 1000 I</u> Article number: N9300171 Relevant identified uses of th No further relevant information | e substance or mixture and uses advised against | |
| Details of the supplier of the Manufacturer/Supplier: | safety data sheet | |
| PerkinElmer, Inc. 710 Bridgeport Avenue Shelton, Connecticut 06484 U CustomerCareUS@perkinelm 203-925-4600 | | |
| Supplier/Local: | | |
| PerkinElmer Australia Lvl 2, Bldg 5, Brandon Office 530-540 Springvale Road Glen Waverley Melbourne VIC 3150 Australia 1-800-033-391 ausales@perkinelmer.com Emergency telephone numbe CHEMTREC (within US) 800 CHEMTREC (from outside U CHEMTREC (within AU) +(6 | r:)-424-9300 S) +1 703-527-3887 (call collect) | |
| Hazard(s) Identification | | |
| Classification of the substant | e or mixture | |
| \checkmark | | |
| Skin Irrit. 2 H315 Causes s | kin irritation. | |

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

• Hazard pictograms GHS07

· Signal word Warning

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(Contd. of page 1) · Hazard statements H315 Causes skin irritation. H319 Causes serious eve irritation. · Precautionary statements P264 Wash thoroughly after handling. P280 Wear protective gloves / 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. *P332+P313* If skin irritation occurs: Get medical advice/attention. *P337+P313* If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. • 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.

| · Dangerous | components: | | |
|--------------|---|---|-------|
| 7697-37-2 | Nitric Acid | Ox. Liq. 2, H272 Skin Corr. 1A, H314 | 2.0% |
| · Additional | Components | | |
| 7440-22-4 | silver | | 0.1% |
| 7732-18-5 | Water | | 97.9% |
| · Additional | information: For the wording of the listed hazard phrases refer to se | ction 16. | |

4 First Aid Measures

- · Description of first aid measures
- 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 extinguishing methods suitable to surrounding conditions.

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

• Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental Release Measures

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

7 Handling and Storage

· Handling:

- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: 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 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. Avoid contact with the eyes and skin.

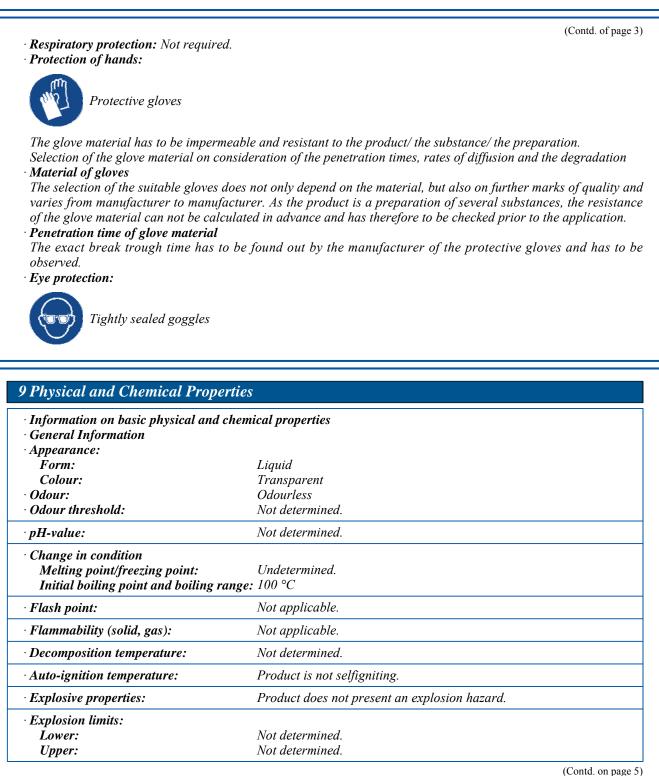
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| | (Contd. of page | e 4) |
|---|--|------|
| • Vapour pressure at 20 •C: | 23 hPa | |
| · Density at 20 •C: | $l g/cm^3$ | |
| Relative density | Not determined. | |
| · Vapour density | Not determined. | |
| Evaporation rate | Not determined. | |
| · Solubility in / Miscibility with | | |
| water: | Fully miscible. | |
| · Partition coefficient: n-octanol/water: | Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Water: | 97.9 % | |
| Solids content: | 0.1 % | |
| • 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 Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- 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: Irritant

Irriiani

12 Ecological Information

· Toxicity

• Aquatic toxicity: No further relevant information available.

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· 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: Generally 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

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.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

| · UN-Number | |
|---|---|
| · ADG, IMDG, IATA | UN3264 |
| · UN proper shipping name | |
| ADG | 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (nitric acid) |
| ·IMDG | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (nitric acid), MARINE POLLUTANT |
| ·IATA | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (nitric acid) |
| · Transport hazard class(es) | |
| · ADG | |
| A CONTRACT OF CONTRACT. | |
| · Class | 8 (C1) Corrosive substances. |
| · Label | 8 |

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· UN ''Model Regulation'':

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Trade name: SILVER 1000 PPM A/S STANDARD (Contd. of page 6) ·IMDG · Class 8 Corrosive substances. · Label 8 $\cdot IATA$ · Class 8 Corrosive substances. · Label 8 · Packing group · ADG, IMDG, IATA Ш • Environmental hazards: · Marine pollutant: Symbol (fish and tree) · Special precautions for user Warning: Corrosive substances. • Danger code (Kemler): 80 F-A, S-B· EMS Number: · Segregation groups Acids · Stowage Category A · Stowage Code SW2 Clear of living quarters. • Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. • Transport/Additional information: ·ADG · Limited quantities (LQ) 5L \cdot Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category 3 • Tunnel restriction code Ε ·IMDG · Limited quantities (LQ) 5LCode: E1 • Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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

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| · Safety, health and environmental regulations/legislation specific for the substance or mixture | | | | | |
|--|--|---|-------|--|--|
| 7732-18-5 | Water | | 97.9% | | |
| 7697-37-2 | Nitric Acid | Ox. Liq. 2, H272 Skin Corr. 1A, H314 | 2.0% | | |
| 7440-22-4 | silver | | 0.1% | | |
| Directive 2 | 012/18/EU ngerous substances - ANNEX I None of the ingredients is listed. | | | | |

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

H272 May intensify fire; oxidiser. H314 Causes severe skin burns and eye damage.

· 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 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. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2A

• * Data compared to the previous version altered.

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