

Printing date 12/04/2020

Review date 12/04/2020

| · Product identifie   | 21   |
|---|--|
| -   | D 1 MG/L EUROPIUM IN 2% HN03   |
| · Article number  |  |
| • Application of th   | he substance / the mixture Laboratory chemicals  |
| · Details of the su   | pplier of the safety data sheet  |
| · Manufacturer/S  |  |
| PerkinElmer, Ind  |  |
| 710 Bridgeport  |  |
| Shelton, Connect  |  |
|   | S@perkinelmer.com  |
| 203-925-4600  | have a second and  |
| • Emergency telep   | hone number:<br>ithin US) 800-424-9300   |
|   | om outside US) +1 703-527-3887 (call collect)  |
|   | ithin AU) + (61) - 290372994   |
|   |  |
| e Hazard(s) ide   | ntification  |
| 11u2u1u(5) uu   | пиранов  |
| · Classification of   | the substance or mixture   |
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|   |  |
|   | 15 Causes skin irritation.   |
|   | <ul><li>15 Causes skin irritation.</li><li>19 Causes serious eye irritation.</li></ul>   |
|   |  |
| Eye Irrit. 2A H3<br>• <b>Label elements</b>   |  |
| Eye Irrit. 2A H3<br>· Label elements<br>· GHS label eleme<br>· Hazard pictogra  | 19 Causes serious eye irritation.<br>ents The product is classified and labeled according to the Globally Harmonized System (GHS)<br>ms GHS07  |
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#### • HMIS-ratings (scale 0 - 4)



#### · Other hazards

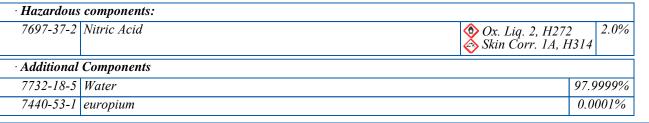
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

- · 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.



# 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.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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| Personal precautions, protective equipment and emergency procedures Not required.                                    |                        |
|--|------------------------|
| • Environmental precautions: Dilute with plenty of water.<br>• Methods and material for containment and cleaning up: |                        |
| Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sav                           | udust)                 |
| • <b>Reference to other sections</b>   | vuusi).                |
| 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   |                        |
| • PAC-1:   |                        |
| 7697-37-2 Nitric Acid  | 0.16 ppm               |
| 7440-53-1 europium   | 30 mg/m <sup>3</sup>   |
| • PAC-2:   |                        |
| 7697-37-2 Nitric Acid  | 24 ppm                 |
| 7440-53-1 europium   | 330 mg/m <sup>3</sup>  |
| • PAC-3:   | ÷                      |
| 7697-37-2 Nitric Acid  | 92 ppm                 |
| 7440-53-1 europium   | $2,000 \text{ mg/m}^3$ |

# 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:

7697-37-2 Nitric Acid

PEL Long-term value: 5 mg/m<sup>3</sup>, 2 ppm

REL Short-term value: 10 mg/m<sup>3</sup>, 4 ppm

Long-term value: 5 mg/m<sup>3</sup>, 2 ppm

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*TLV* Short-term value: 10 mg/m<sup>3</sup>, 4 ppm Long-term value: 5.2 mg/m<sup>3</sup>, 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

| General Information          |                 |  |
|------------------------------|-----------------|--|
| Appearance:                  |                 |  |
| Form:                        | Liquid          |  |
| Color:                       | Transparent     |  |
| Odor:                        | Odorless        |  |
| Odor threshold:              | Not determined. |  |
| pH-value:                    | Not determined. |  |
| Change in condition          |                 |  |
| Melting point/Melting range: | Undetermined.   |  |
| Boiling point/Boiling range: | 100 °C (212 °F) |  |



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|                                       |  | (Contd. of page |
|---------------------------------------|--|-----------------|
| 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.<br>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 | e <b>r):</b> Not determined.                                     |                 |
| Viscosity:                            |  |                 |
| <i>Dynamic at 20 •C (68 •F):</i>      | 0.952 mPas   |                 |
| Kinematic:                            | Not determined.  |                 |
| Solvent content:                      |  |                 |
| Water:                                | 98.0 %   |                 |
| VOC content:                          | 0.00 %   |                 |
| Solids content:                       | 0.0 %  |                 |
| 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.

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# 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)

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.
- · 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.

- · 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.

| UN-Number<br>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.,<br>(Nitric Acid) |
| IMDG, IATA                                 | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitr                |
|  | Acid)  |
| Transport hazard class(es)                 |  |
| DOT  |  |
| $\wedge$                                   |  |
| Le la  |  |
| 8  |  |
| Class                                      | 8 Corrosive substances   |
| Label                                      | 8  |
| ADR  |  |
| $\wedge$                                   |  |
|  |  |
|  |  |
| Class                                      | 8 (C1) Corrosive substances                                      |
| Label                                      | 8  |
| IMDG, IATA                                 |  |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~     |  |
| A CONTRACTOR                               |  |
| 8  |  |
| Class                                      | 8 Corrosive substances   |
| Label                                      | 8  |
| Packing group                              |  |
| DOT, ADR, IMDG, IATA                       | III  |
| Environmental hazards:                     | Not applicable.  |
| Special precautions for user               | Warning: Corrosive substances                                    |
| Hazard identification number (Kemler code) |  |
| EMS Number:<br>Segregation groups          | F-A,S-B<br>Acids   |
| Stowage Category                           | A cius<br>A  |



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### Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

|   | (Contd. of page  |
|---|--|
| 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<br>Quantity limitations   | On passenger aircraft/rail: 5 L<br>On cargo aircraft only: 60 L  |
| ADR<br>Excepted quantities (EQ)   | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml       |
| IMDG<br>Limited quantities (LQ)<br>Excepted quantities (EQ)             | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| UN "Model Regulation":  | UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S<br>(NITRIC ACID), 8, III  |

|             | lth and environmental regulations/legislat | ion specific for the substance of mixture                             | 07.00000 |
|-------------|--|---|----------|
| 7732-18-5   | Water                                      |   | 97.99999 |
| 7697-37-2   | Nitric Acid                                | <ul> <li>Ø Ox. Liq. 2, H272</li> <li>Ø Skin Corr. 1A, H314</li> </ul> | 2.0%     |
| 7440-53-1   | europium                                   |   | 0.0001%  |
| Sara        |  |   |          |
| Section 35. | 5 (extremely hazardous substances):        |   |          |
| 7697-37-2   | Nitric Acid                                |   |          |
| Section 31. | 3 (Specific toxic chemical listings):      |   |          |
| 7697-37-2   | Nitric Acid                                |   |          |
| TSCA (Tox   | xic Substances Control Act):               |   |          |
| 7732-18-5   | Water                                      |   | ACTIVE   |
| 7697-37-2   | Nitric Acid                                |   | ACTIVE   |
| 7440-53-1   | europium                                   |   | ACTIVE   |
| Hazardous   | Air Pollutants                             |   |          |
| None of the | e ingredients is listed.                   |   |          |
| Proposition | n 65                                       |   |          |
| Chemicals   | known to cause cancer:                     |   |          |
|             | e ingredients is listed.                   |   |          |



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· 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)

None of the ingredients is listed.

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:

- 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 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)
- VOC: Volatile Organic Compounds (USA, EC
- *PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative*

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health



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USA

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.