

according to 1907/2006/EC, Article 31

Printing date 15.06.2021

Revision: 15.06.2021

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### · 1.1 Product identifier

· **Trade name:** STD ICH CLASS 1 ELEM TI ORAL PDE 10x

· **Article number:** N9304390

· **1.2 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

### · 1.3 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

PerkinElmer, Inc.  
Chalfont Road Buckinghamshire  
Seer Green HP9 2FX  
cc.uk@perkinelmer.com  
United Kingdom  
P: 0800 896 046  
F: 0800-89 17 14

PerkinElmer, Inc.  
Llantrisant Business Park, Unit A  
Llantrisant CF72 8YW  
United Kingdom  
cc.uk@perkinelmer.com  
P: 44 1443 234005

### · 1.4 Emergency telephone number:

CHEMTREC (within US) 800-424-9300

CHEMTREC (from outside US) +1 703-527-3887 (call collect)

CHEMTREC (within AU) +(61)-290372994

## SECTION 2: Hazards identification

### · 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

### · 2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms** GHS05

· **Signal word** Danger

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· **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): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

· **2.3 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.

**SECTION 3: Composition/information on ingredients**








· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

|                                     |             |   |       |
|-------------------------------------|-------------|---|-------|
| CAS: 7697-37-2<br>EINECS: 231-714-2 | Nitric Acid |  Ox. Liq. 2, H272<br> Skin Corr. 1A, H314 | 10.0% |
|-------------------------------------|-------------|---|-------|

· **Additional Components**

|                                     |   |  |         |
|-------------------------------------|---|--|---------|
| CAS: 7732-18-5<br>EINECS: 231-791-2 | Water   |  | 89.937% |
| CAS: 7439-97-6<br>EINECS: 231-106-7 | mercury<br> Acute Tox. 2, H330<br> Repr. 1B, H360D; STOT RE 1, H372<br> Aquatic Acute 1, H400; Aquatic Chronic 1, H410 |  | 0.03%   |
| CAS: 7440-38-2<br>EINECS: 231-148-6 | Arsenic<br> Acute Tox. 3, H301; Acute Tox. 3, H331<br> Aquatic Acute 1, H400; Aquatic Chronic 1, H410   |  | 0.015%  |
| CAS: 7440-28-0<br>EINECS: 231-138-1 | thallium<br> Acute Tox. 2, H300; Acute Tox. 2, H330<br> STOT RE 2, H373<br>Aquatic Chronic 4, H413  |  | 0.008%  |





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|-------------------------------------|--|--------------------|
| CAS: 7439-92-1<br>EINECS: 231-100-4 | lead<br> Repr. 1A, H360FD-H362  | 0.005%             |
| CAS: 7440-43-9<br>EINECS: 231-152-8 | cadmium<br> Acute Tox. 3, H301; Acute Tox. 2, H330<br> Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361fd; STOT RE 1, H372<br> Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 0.005%             |

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

### SECTION 4: First aid measures

- **4.1 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.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- **6.3 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.
- **6.4 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.

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## SECTION 7: Handling and storage

- **7.1 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.
- **7.2 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.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

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

**7697-37-2 Nitric Acid**

WEL Short-term value: 2.6 mg/m<sup>3</sup>, 1 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 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.  
Avoid contact with the eyes 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

|                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Liquid          |
| · <b>Colour:</b>          | Dark brown      |
| · <b>Odour:</b>           | Characteristic  |
| · <b>Odour threshold:</b> | Not determined. |

· **pH-value:** Not determined.

· **Change in condition**

|   |               |
|---|---------------|
| · <b>Melting point/freezing point:</b>            | Undetermined. |
| · <b>Initial boiling point and boiling range:</b> | 83 °C         |

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.  
Not determined.

· **Explosion limits:**

|                 |                 |
|-----------------|-----------------|
| · <b>Lower:</b> | Not determined. |
| · <b>Upper:</b> | Not determined. |

· **Vapour pressure at 20 °C:** 23 hPa

|                            |                           |
|----------------------------|---------------------------|
| · <b>Density at 20 °C:</b> | 1.05654 g/cm <sup>3</sup> |
| · <b>Relative density</b>  | Not determined.           |
| · <b>Vapour density</b>    | Not determined.           |
| · <b>Evaporation rate</b>  | Not determined.           |

· **Solubility in / Miscibility with water:** Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

|                     |                 |
|---------------------|-----------------|
| · <b>Dynamic:</b>   | Not determined. |
| · <b>Kinematic:</b> | Not determined. |

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|                                |  |
|--------------------------------|--|
| · <b>Solvent content:</b>      |  |
| <b>Water:</b>                  | 89.9 %                                     |
| <b>Solids content:</b>         | 0.0 %                                      |
| · <b>9.2 Other information</b> | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 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.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 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.

**SECTION 14: Transport information**

- |   |                                |
|---|--------------------------------|
| · <b>14.1 UN-Number</b>   |                                |
| · <b>ADR, IMDG, IATA</b>  | UN2031                         |
| · <b>14.2 UN proper shipping name</b>   |                                |
| · <b>ADR</b>  | 2031 NITRIC ACID               |
| · <b>IMDG, IATA</b>   | NITRIC ACID                    |
| · <b>14.3 Transport hazard class(es)</b>  |                                |
| · <b>ADR</b>  |                                |
|  |                                |
| · <b>Class</b>  | 8 (C1) Corrosive substances.   |
| · <b>Label</b>  | 8                              |
| · <b>IMDG, IATA</b>   |                                |
|  |                                |
| · <b>Class</b>  | 8 Corrosive substances.        |
| · <b>Label</b>  | 8                              |
| · <b>14.4 Packing group</b>   |                                |
| · <b>ADR, IMDG, IATA</b>  | II                             |
| · <b>14.5 Environmental hazards:</b>  | Not applicable.                |
| · <b>14.6 Special precautions for user</b>  | Warning: Corrosive substances. |
| · <b>Hazard identification number (Kemler code):</b>                                | 80                             |
| · <b>EMS Number:</b>  | F-A,S-Q                        |

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|   |   |
|---|---|
| · Segregation groups  | Acids   |
| · Stowage Category  | B   |
| · Stowage Code  | SW2 Clear of living quarters.   |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable.   |
| · Transport/Additional information:                                       |   |
| · ADR   |   |
| · Limited quantities (LQ)   | 1L  |
| · Excepted quantities (EQ)  | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · Transport category  | 2   |
| · Tunnel restriction code   | E   |
| · IMDG  |   |
| · Limited quantities (LQ)   | 1L  |
| · Excepted quantities (EQ)  | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation":  | UN 2031 NITRIC ACID, 8, II  |

**SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

|                                     |   |         |
|-------------------------------------|---|---------|
| CAS: 7732-18-5<br>EINECS: 231-791-2 | Water   | 89.937% |
| CAS: 7697-37-2<br>EINECS: 231-714-2 | Nitric Acid<br> Ox. Liq. 2, H272<br> Skin Corr. 1A, H314  | 10.0%   |
| CAS: 7439-97-6<br>EINECS: 231-106-7 | mercury<br> Acute Tox. 2, H330<br> Repr. 1B, H360D; STOT RE 1, H372<br> Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 0.03%   |

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 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.  
H300 Fatal if swallowed.  
H301 Toxic if swallowed.  
H314 Causes severe skin burns and eye damage.  
H330 Fatal if inhaled.  
H331 Toxic if inhaled.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H360D May damage the unborn child.  
H360FD May damage fertility. May damage the unborn child.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H362 May cause harm to breast-fed children.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.

### · Department issuing SDS:

Environmental, Health and Safety  
PerkinElmer  
Chalfont Road  
Buckinghamshire  
Seer Green  
HP9 2FX  
United Kingdom  
Telephone : 0800-89 60 46  
FAX : 0800-89 17 14

### · 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  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
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)*  
*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 Corr. 1B: Skin corrosion/irritation – Category 1B*  
*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*  
· **\* Data compared to the previous version altered.**

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