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SECTION 1: Identification of the substance/mixture and of the company/under	rtaking
1.1 Product identifier	
<ul> <li>Trade name: <u>STD ICH CLASS 1 ELEM + TL - INHAL PDE</u></li> <li>Article number: N9304376</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> <li>Application of the substance / the mixture Laboratory chemicals</li> </ul>	
• 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 <b>1.4 Emergency telephone number:</b> 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	
<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>GHS05 corrosion</li> <li>Skin Corr. 1B H314 Causes severe skin burns and eye damage.</li> <li>Eye Dam. 1 H318 Causes serious eye damage.</li> <li>2.2 Label elements</li> <li>Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.</li> <li>Hazard pictograms GHS05</li> <li>Signal word Danger</li> </ul>	(Contd. on page 2)
	(Conta: on page 2)



Printing date 27.05.2021

Revision: 27.05.2021

#### Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

(Contd. of page 1)

· Hazard-determining components of labelling: Nitric Acid Hydrochloric 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.

<ul> <li>Dangerous compon</li> </ul>	ents:	
CAS: 7697-37-2 EINECS: 231-714-2	Nitric Acid Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%
CAS: 7647-01-0 EINECS: 231-595-7	Hydrochloric Acid	2.09
· Additional Compon	ents	
CAS: 7732-18-5 EINECS: 231-791-2	Water	92.9982%
CAS: 7440-28-0 EINECS: 231-138-1	thallium Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 4, H413	0.0008%
CAS: 7439-92-1 EINECS: 231-100-4	lead & Repr. 1A, H360FD-H362	0.0005%
CAS: 7440-38-2 EINECS: 231-148-0	Arsenic	0.0002%



Printing date 27.05.2021

Revision: 27.05.2021

# Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

	(0	Contd. of page 2)	
CAS: 7440-43-9	cadmium	0.0002%	
EINECS: 231-152-8	Acute Tox. 3, H301; Acute Tox. 2, H330	-	
	htta. 2, H341; Carc. 1B, H350; Repr. 2, H361fd; STOT RE 1, H372		
	<ul> <li>Acute Tox. 3, H301; Acute Tox. 2, H330</li> <li>Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361fd; STOT RE 1, H372</li> <li>Aquatic Acute 1, H400; Aquatic Chronic 1, H410</li> </ul>		
CAS: 7439-97-6	mercurv	0.0001%	
EINECS: 231-106-7		-	
	🕉 Repr. 1B, H360D; STOT RE 1, H372		
	<ul> <li>Acute Tox. 2, H330</li> <li>Repr. 1B, H360D; STOT RE 1, H372</li> <li>Aquatic Acute 1, H400; Aquatic Chronic 1, H410</li> </ul>		
• 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.

(Contd. on page 4)

GB



Printing date 27.05.2021

Revision: 27.05.2021

(Contd. of page 3)

#### Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

See Section 13 for disposal information.

# 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

7647-01-0 Hydrochloric Acid

WEL Short-term value: 8 mg/m<sup>3</sup>, 5 ppm Long-term value: 2 mg/m<sup>3</sup>, 1 ppm (gas and aerosol mists)

• 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

(Contd. on page 5)



Printing date 27.05.2021

Revision: 27.05.2021

#### Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

(Contd. of page 4)

• *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

# SECTION 9: Physical and chemical properties

General Information Appearance:		
Form:	Fluid	
Colour:	Dark brown	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	100 °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:		
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:	Fully miscible.	

GB



Printing date 27.05.2021

Revision: 27.05.2021

#### Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

	(Contd. of	page 5)
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	93.0 %	
•9.2 Other information	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.
- $\cdot$  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 (carcinogenity, 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.

(Contd. on page 7)

GB



Printing date 27.05.2021

Revision: 27.05.2021

#### Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

(Contd. of page 6)

• 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.

· 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.

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· 14.1 UN-Number · ADR, IMDG, IATA	UN3264
14.2 UN proper shipping name	
ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (Nitric Acid, HYDROCHLORIC ACID)
IMDG	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitri Acid, HYDROCHLORIC ACID), MARINE POLLUTANT
IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitri Acid, HYDROCHLORIC ACID)
14.3 Transport hazard class(es)	
ADR	
Class	8 (C1) Corrosive substances.
Label	8
IMDG	
Class	8 Corrosive substances.
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GB

# according to 1907/2006/EC, Article 31

Printing date 27.05.2021

Revision: 27.05.2021

# Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

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Label	8
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Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	111
14.5 Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
14.6 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.
14.7 Transport in bulk according to Annex II o	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
Excepted quantales (EQ)	Maximum net quantity per inner packaging: 30 ml
_	Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 E
IMDG Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	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, HYDROCHLORIC ACID), 8, III

SECTION 15: R	egulatory information	
· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
CAS: 7732-18-5 EINECS: 231-791-2	Water	92.9982%
CAS: 7697-37-2 EINECS: 231-714-2	Nitric Acid Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%
	(Co	ntd. on page 9)



Printing date 27.05.2021

Revision: 27.05.2021

#### Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

	contd. of page 8)
CAS: 7647-01-0 Hydrochloric Acid	2.0%
EINECS: 231-595-7 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	-

· 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:

· 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.

• 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.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- 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.*

(Contd. on page 10)



Printing date 27.05.2021

Revision: 27.05.2021

(Contd. of page 9)

GE

#### Trade name: STD ICH CLASS 1 ELEM + TL - INHAL PDE

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 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

Acute Tox. 4: Acute toxicity – Category 4 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 SE 3: Specific target organ toxicity (single exposure) – Category 3

\* \* Data compared to the previous version altered.