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# according to 1907/2006/EC, Article 31

Printing date 15.04.2020

Revision: 15.04.2020

SE	ECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1	Product identifier
• Art • 1.2 No	ade name: <u>STD, Initial Calibration Varification Std 2</u> ticle number: N9303826 Relevant identified uses of the substance or mixture and uses advised against further relevant information available. plication of the substance / the mixture Laboratory chemicals
	Details of the supplier of the safety data sheet anufacturer/Supplier:
710 She Cu. 203 Per Ch See cc. Un P: F: F: Per Lla Lla Un	rkinElmer, Inc. 0 Bridgeport Avenue elton, Connecticut 06484 USA stomerCareUS@perkinelmer.com 3-925-4600 rkinElmer, Inc. alfont Road Buckinghamshire er Green HP9 2FX uk@perkinelmer.com ited Kingdom 0800 896 046 0800-89 17 14 rkinElmer, Inc. intrisant Business Park, Unit A intrisant CF72 8YW ited Kingdom uk@perkinelmer.com
P: • <b>1.4</b> CH CH	44 1443 234005 <b>Emergency telephone number:</b> IEMTREC (within US) 800-424-9300 IEMTREC (from outside US) +1 703-527-3887 (call collect) IEMTREC (within AU) +(61)-290372994
	CCTION 2: Hazards identification
	Classification of the substance or mixture assification according to Regulation (EC) No 1272/2008
4	GHS06 skull and crossbones
Acı ·	ute Tox. 3 H311 Toxic in contact with skin.
4	GHS05 corrosion
	n Corr. 1A H314 Causes severe skin burns and eye damage. e Dam. 1 H318 Causes serious eye damage. (Contd. on page 2)



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GHS	07
• GIIS	<i>J</i> /
$\mathbf{V}$	
Acute Tox. 4	H302 Harmful if swallowed.
2.2 Label eleme	ents
Labelling accor	ding to Regulation (EC) No 1272/2008
	classified and labelled according to the CLP regulation.
Hazard pictogra	ams GHS05, GHS06
Signal word Da	inger
Hazard-determ	ining components of labelling:
Hydrofluoric ac	
Nitric Acid	
Hazard stateme	nts
H302 Harmful i	
<i>v</i> 1	contact with skin.
	evere skin burns and eye damage.
Precautionary s	
P260	Do not breathe dusts or mists.
P303+P361+P.	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wate
	[or shower].
P305+P351+P.	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazar	
The product do formaldehydes.	pes not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds of
joi manachyaes.	

# • 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:				
	Nitric Acid	2.0%		
EINECS: 231-714-2	Ox. Liq. 2, H272 Skin Corr. 1A, H314			
CAS: 7664-39-3	Hydrofluoric acid	0.9%		
EINECS: 231-634-8	<i>Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330</i> <i>Skin Corr. 1A, H314</i>			
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· Additional Components				
CAS: 7732-18-5 EINECS: 231-791-2	Water	97.098%		
CAS: 7440-31-5 EINECS: 231-141-8	tin	0.001%		
CAS: 7440-32-6 EINECS: 231-142-3	titanium	0.001%		
• 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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- 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.
- Rub in Ca-gluconate solution or Ca-gluconate gel immediately.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Call for a doctor immediately.

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:

Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.

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Do not allow to enter sewers/surface or ground 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.

## 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: The product is not flammable. 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

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

#### 7664-39-3 Hydrofluoric acid

WEL Short-term value: 2.5 mg/m<sup>3</sup>, 3 ppm

Long-term value: 1.5 mg/m<sup>3</sup>, 1.8 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. Store protective clothing separately. Avoid contact with the eyes.

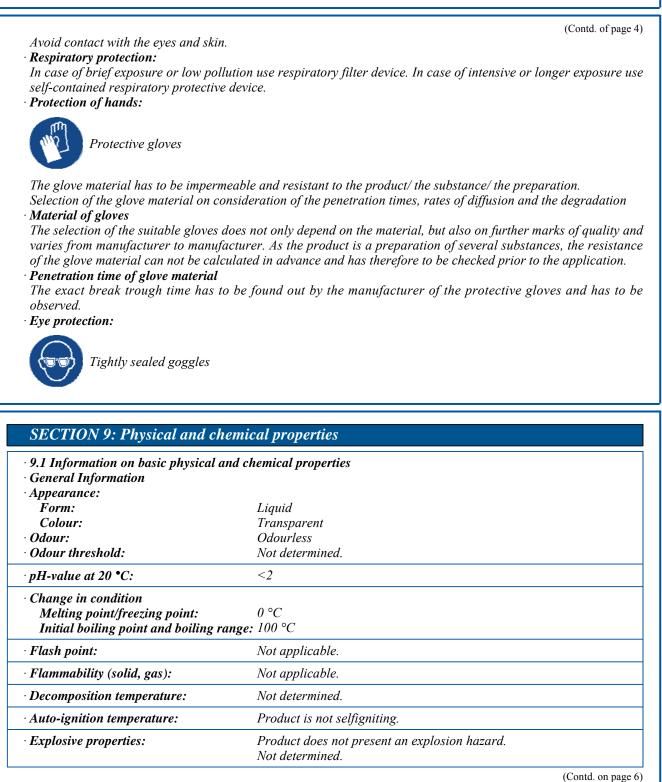
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Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 •C:	23 hPa
Density at 20 °C:	1 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Water:	97.1 %
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.
- 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
- Harmful if swallowed.
- Toxic in contact with skin.
- 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.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.

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- STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot$  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:

Not hazardous for water.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 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.

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)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitr
	Acid)



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#### Trade name: STD, Initial Calibration Varification Std 2 (Contd. of page 7) · 14.3 Transport hazard class(es) ·ADR · Class 8 (C1) Corrosive substances. · Label 8 · IMDG, IATA · Class 8 Corrosive substances. · Label 8 · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: • Marine pollutant: No · 14.6 Special precautions for user Warning: Corrosive substances. · Hazard identification number (Kemler code): 86 F-A, S-B· EMS Number: · Segregation groups Acids · Stowage Category A · 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) 5LCode: E1 • Excepted quantities (EQ) 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) 5L• Excepted quantities (EQ) Code: E1 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

# SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture					
CAS: 7732-18-5	Water	97.098%			
EINECS: 231-791-2					
	Nitric Acid	2.0%			
EINECS: 231-714-2	<ul> <li>Ox. Liq. 2, H272</li> <li>Skin Corr. 1A, H314</li> </ul>				
CAS: 7664-39-3	Hydrofluoric acid	0.9%			

Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330

· Directive 2012/18/EU

EINECS: 231-634-8

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

🕎 Skin Corr. 1A, H314

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

· 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: Generally not 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

H250 Catches fire spontaneously if exposed to air.
H251 Self-heating: may catch fire.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H272 May intensify fire; oxidiser.
H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.

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· 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 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 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. 2: Acute toxicity - oral – Category 2 Acute Tox. 4: Acute toxicity - oral – Category 4 Acute Tox. 1: Acute toxicity - dermal - Category 1 Acute Tox. 3: Acute toxicity - dermal - Category 3 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 • \* Data compared to the previous version altered.