

Printing date 30.05.2018

Revision: 30.05.2018

Hazardous according to criteria of Australian Safety and Compensation Council.

Product identifier		
Trade name: TCLP MULTIELE	MENT STANDARD	
Article number: N9300241		
Relevant identified uses of the su	bstance or mixture and uses advised against	
No further relevant information a		
Application of the substance / the	e <b>mixture</b> Laboratory chemicals	
Details of the supplier of the safe	ety data sheet	
Manufacturer/Supplier:		
PerkinElmer, Inc.		
710 Bridgeport Avenue		
Shelton, Connecticut 06484 USA		
CustomerCareUS@perkinelmer.c	rom	
203-925-4600		
Supplier/Local:		
PerkinElmer Australia		
Lvl 2, Bldg 5, Brandon Office Par	rk	
530-540 Springvale Road		
Glen Waverley		
Melbourne		
VIC 3150		
Australia		
1-800-033-391		
ausales@perkinelmer.com		
Emergency telephone number:	4 0000	
CHEMTREC (within US) 800-42		
CHEMTREC (from outside US) +		
CHEMTREC (within AU) +(61)-2	290372994	
Hazard(s) Identification		
Classification of the substance of	r mixture	

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

· 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 eye 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.

7697-37-2	Nitric Acid $O:$	x. Liq. 2, H272 in Corr. 1A, H314
Additional	Components	
7440-39-3	barium	0.05%
	Water-react. 2, H261	
7440-47-3	chromium	0.0025
7439-92-1	lead	0.0025
	Acute Tox. 3, H301	
	Repr. 1A, H360-H362           Acute Tox. 4, H332	
7440-22-4		0.0025
		0.0025
7440-38-2		0.0025
7439-97-6		0.0029
	Acute Tox. 2, H330 Repr. 1B, H360; STOT RE 1, H372	
7782-49-2	selenium	0.0005
	Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373	
7440-43-9	cadmium (non-pyrophoric)	0.0005
	Acute Tox. 2, H330 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
7732-18-5	Water	97.937



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• Additional information: For the wording of the listed hazard phrases refer to section 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.
- 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:

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

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• 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/m<sup>3</sup>, 4 ppm Long-term value: 5.2 mg/m<sup>3</sup>, 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.
- **Respiratory protection:** 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

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Lower:NotUpper:Not	
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Vapour pressure at 20 °C:23 h	i determinea.
	hPa
	/cm <sup>3</sup>
	t determined.
1	t determined.
<b>Evaporation rate</b> Not	t determined.
Solubility in / Miscibility with	
water: Full	lly miscible.
Partition coefficient: n-octanol/water: Not	t determined.
Viscosity:	
	t determined.
Kinematic: Not	t determined.
Solvent content:	
<b>Water:</b> 97.9	9 %

## 10 Stability and Reactivity

• **Reactivity** No further relevant information available.

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· 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

#### **12 Ecological Information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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:

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

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.

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

**** ** 1		
· UN-Number · ADG, IMDG, IATA	UN3264	
UN proper shipping name ADG IMDG, IATA	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (nitric acid) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (nitric acid)	
Transport hazard class(es)		
ADG		
Class	8 (C1) Corrosive substances.	
· Class	8 Corrosive substances.	
Packing group ADG, IMDG, IATA	III	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Warning: Corrosive substances.	
EMS Number:	F-A,S-B	
Segregation groups Stowage Category	Acids A	
Stowage Code	SW2 Clear of living quarters.	
Transport in bulk according to Annex II of	f Marpol	
and the IBC Code	Not applicable.	
Transport/Additional information:		
ADG		
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	



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·IMDG	
$\cdot$ Limited quantities (LQ)	5L
$\cdot$ 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), 8, III

15 Regulatory information						
· Safety, hea	· Safety, health and environmental regulations/legislation specific for the substance or mixture					
7732-18-5	Water		97.937%			
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	2.0%			
7440-39-3	barium	🚸 Water-react. 2, H261	0.05%			

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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.

· 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

#### · Relevant phrases

H261 In contact with water releases flammable gases.
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H341 Suspected of causing genetic defects.
H350 May cause cancer.

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H360 May damage fertility or the unborn child.
H361 Suspected of damaging fertility or 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.

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

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

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 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A