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Hazardous according to criteria of Australian Safety and Compensation Council.

r	
T Single Element Solution	
N8145060 ed uses of the substance or mixture and uses advised against	
int information available.	
e substance / the mixture Laboratory chemicals	
pplier of the safety data sheet	
upplier:	
lvenue	
icut 06484 USA	
S@perkinelmer.com	
tralia	
andon Office Park	
ale Road	
elmer.com	
hone number:	
thin US) 800-424-9300	
om outside US) +1 703-527-3887 (call collect)	
thin AU) +(61)-290372994	
ntification	
·	
the substance or mixture	
15 Causes skin 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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<sup>-</sup> AU



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• Hazard stateme	nts
H315 Causes sk	in irritation.
H319 Causes se	rious eye irritation.
· Precautionary s	tatements
P264	Wash thoroughly after handling.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P3	338 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 do	es not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or
formaldehydes.	
· Results of PBT	and vPvB assessment
· PBT: Not applie	cable.
• vPvB: Not appli	cable.

## **3** Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
7697-37-2	Nitric Acid	� Ox. Liq. 2, H27 ↔ Skin Corr. 1, H.	$\begin{array}{c} 2 \\ 314 \end{array}$ 2.0%	
· Additional	Components			
7439-89-6	iron	🚸 Acute Tox. 2, H300	0.0002%	
7732-18-5	Water		97.9998%	
· Additional	information. For the wording of the listed hazard phrases refe	r to section 16		

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

# 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.

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# **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. Do not allow to enter sewers/ surface or ground 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.
- 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

- NES Short-term value: 10 mg/m<sup>3</sup>, 4 ppm
- Long-term value: 5.2 mg/m<sup>3</sup>, 2 ppm
- 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.

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- 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

Information on basic physical and of General Information	chemical properties	
Appearance: Form:	Fluid	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	0 °C	
Initial boiling point and boiling ro	ange: 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	



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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:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	98.0 %	
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.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · 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.
- $\cdot$  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:

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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: Not hazardous for water.
- · 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.

UN-Number	
ADG, IMDG, IATA	UN3264
UN proper shipping name	
ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O (Nitric Acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (Nitric Acid)
Transport hazard class(es)	
ADG	
Class	8 (C1) Corrosive substances.



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Label	8
IMDG, IATA	
Class Label	8 Corrosive substances. 8
Packing group ADG, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user Danger code (Kemler): EMS Number: Segregation groups Stowage Category Stowage Code	Warning: Corrosive substances. 80 F-A,S-B Acids A SW2 Clear of living quarters.
Transport in bulk according to Annex II and the IBC Code	
Transport/Additional information:	
ADG Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANI N.O.S. (NITRIC ACID), 8, III

15 Regulato	ry information			
· Safety, hea	· Safety, health and environmental regulations/legislation specific for the substance or mixture			
7732-18-5	Water		97.9998%	
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1, H314	2.0%	
		(C	ontd. on page 8	



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(Contd. of page 7) 7439-89-6 iron 🚸 Acute Tox. 2, H300 0.0002% · 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: Generally not 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 H272 May intensify fire; oxidiser. H300 Fatal if swallowed. H314 Causes severe skin burns and eye damage. · 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. 1: Skin corrosion/irritation – Category 1 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A AT