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# according to 1907/2006/EC, Article 31

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GB

SECTION 1: Identij	fication of the substance/mixture and of the company/undertaking
· 1.1 Product identifier	
• Article number: N93038 • 1.2 Relevant identified u No further relevant infor	uses of the substance or mixture and uses advised against
<ul> <li>1.3 Details of the supplie</li> <li>Manufacturer/Supplier:</li> </ul>	
PerkinElmer, Inc. 710 Bridgeport Avenue Shelton, Connecticut 064 CustomerCareUS@perki 203-925-4600 PerkinElmer, Inc. Chalfont Road Buckingh Seer Green HP9 2FX cc.uk@perkinelmer.com United Kingdom P: 0800 896 046 F: 0800-89 17 14 PerkinElmer, Inc. Llantrisant Business Par Llantrisant CF72 8YW	inelmer.com amshire
United Kingdom cc.uk@perkinelmer.com P: 44 1443 234005 • <b>1.4 Emergency telephon</b> CHEMTREC (within US) CHEMTREC (from outsi CHEMTREC (within AU	) 800-424-9300 ide US) +1 703-527-3887 (call collect)
CROTIONA II	7 • 7 .,• /• .,•
SECTION 2: Hazar 2.1 Classification of the Classification according GHS07 Skin Irrit. 2 H315 Caus Eye Irrit. 2 H319 Caus	substance or mixture g to Regulation (EC) No 1272/2008 wes skin irritation.
2.2 Label elements Labelling according to I	<b>Regulation (EC) No 1272/2008</b> and labelled according to the CLP regulation.



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(Contd. of page 1) · Hazard statements Causes skin irritation. Causes serious eye irritation. · Precautionary statements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. · 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 compone	ents:			
CAS: 7697-37-2	Nitric Acid		🚸 Ox. Liq. 2, H272 🚯 Skin Corr. 1A, H314	2.0%
EINECS: 231-714-2			🚸 Skin Corr. 1A, H314	4
· Additional Compone	ents			
CAS: 7440-67-7	zirconium	🚸 Pyr. Sol. 1, H250; W	Vater-react. 1, H260	0.1%
EINECS: 231-176-9				
CAS: 7732-18-5	Water			97.9%
EINECS: 231-791-2				
· Additional informati	ion: For the wording of the listed ha	zard phrases refer to sect	tion 16.	

## **SECTION 4: First aid measures**

· 4.1 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.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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• **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 No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

## SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

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

Dilute with plenty of water.

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).

· 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 No special precautions are necessary if used correctly.

• Information about fire - and explosion protection: The product is not flammable.

· 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

 $\cdot$  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.

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· pH-value:

· Flash point:

· Change in condition

· Flammability (solid, gas):

• Decomposition temperature:

*Melting point/freezing point:* 

Initial boiling point and boiling range: 100 °C

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(Contd. of page 3) · 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 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 **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Colour: Transparent **Odourless** · Odour: · Odour threshold: Not determined.

Not determined.

Not applicable.

Not applicable.

Not determined.

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• Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· 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:	97.9 %	
Solids content:	0.1 %	
• 9.2 Other information	No further relevant information available.	

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- 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 skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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<sup>· 10.2</sup> Chemical stability

<sup>•</sup> Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.



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· 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.

 $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$ 

• 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: Generally not hazardous for water

· 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	
· 14.1 UN-NUMBER · ADR, IMDG, IATA	UN3264
· 14.2 UN proper shipping name	
· ADR, IMDĠ, IATĂ	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitr
	Acid)



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14.3 Transport hazard class(es)	
ADR	
all	
Class	8 (C1) Corrosive substances.
Label	8
IMDG, IATA	
Class Label	8 Corrosive substances. 8
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80 E 4 G D
EMS Number:	F-A,S-B Acids
Segregation groups Stowage Category	Actus
Stowage Code	SW2 Clear of living quarters.
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L C L EL
Excepted quantities $(EQ)$	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 50 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: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
	Maximum nei quanitiy per outer packaging: 1000 ml



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· UN "Model Regulation":

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

CAS: 7732-18-5	Water	ations/legislation specific for the substance or mixture	97.9
EINECS: 231-791-2 CAS: 7697-37-2	Nitric Acid	🚯 Ox. Liq. 2, H272	2.09
EINECS: 231-714-2	· ·	Skin Corr. 1A, H314	0.1
CAS: 7440-67-7 EINECS: 231-176-9	zirconium	🚸 Pyr. Sol. 1, H250; Water-react. 1, H260	0.19
IF ON SKIN: Wash w IF IN EYES: Rinse c. Continue rinsing. Specific treatment (se If skin irritation occu If eye irritation persis Take off contaminated Directive 2012/18/EU Named dangerous su	ritation. <b>nents</b> r handling. es / eye protection / face with plenty of water. autiously with water for e on this label). rs: Get medical advice/a d clothing and wash it be bstances - ANNEX I No No 1907/2006 ANNEX	several minutes. Remove contact lenses, if present and ed attention. attention.	isy to a
	•		
· National regulations			
· Information about li	mitation of use:	is hazardous material. Exceptions can be made by the auth	orities

considered a warranty or quality specification. All materials may present unknown hazards, and

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Printing date 13.04.2018 Revision: 13.04.2018 Trade name: STD- Zirconium 1000 PPM 2% HNO3 (Contd. of page 8) 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. H260 In contact with water releases flammable gases which may ignite spontaneously. H272 May intensify fire; oxidiser. H314 Causes severe skin burns and eye damage. · 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 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2  $\cdot$  \* Data compared to the previous version altered.