

Printing date 13.06.2018

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Hazardous according to criteria of Australian Safety and Compensation Council.

Product identifie	
No further releva	
Details of the sup Manufacturer/Si	plier of the safety data sheet oplier:
PerkinElmer, Inc 710 Bridgeport A Shelton, Connect CustomerCareUS 203-925-4600	
Supplier/Local:	
CHEMTREC (fro	ndon Office Park le Road ner.com
Hazard(s) Ide	tification
Classification of	he substance or mixture

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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• Hazard statemer	its
H315 Causes ski	in irritation.
H319 Causes ser	rious eye irritation.
· Precautionary st	tatements
P264	Wash thoroughly after handling.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P3	38 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 of	and vPvB assessment
· PBT: Not applic	able.

• **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

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

7440-70-2	calcium	🚸 Water-react. 2, H261	3.5%
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	2.0%
7439-95-4	magnesium	📀 Pyr. Sol. 1, H250; Water-react. 1, H260	1.5%
Additional	Components		
7440-23-5	sodium Water-react. 1, H260 Skin Corr. 1B, H314		0.8%
7440-09-7	7 potassium Water-react. 1, H260 Skin Corr. 1B, H314		0.3%
7439-98-7	molybdenum		0.01%
7440-24-6	strontium Water-react. 1, H260		0.01%
7440-42-8			0.01%
7439-89-6	iron		0.01%
7440-02-0	nickel Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317		0.005%
7440-62-2	vanadium		0.005%



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7440 66 6	•	(Contd. of pag
7440-66-6		0.005
	🚸 Water-react. 2, H261	
7440-38-2	Arsenic	0.005
	🛞 Acute Tox. 3, H301; Acute Tox. 3, H331	
7440-39-3	barium	0.005
	Water-react. 2, H261	
7439-96-5	manganese	0.003
7439-92-1	lead	0.0025
	Acute Tox. 3, H301	
	& Repr. 1A, H360-H362	
	Acute Tox. 4, H332	
7440-48-4	cobalt	0.0025
	lesp. Sens. 1, H334	
	Skin Sens. 1, H317	
7440-47-3	chromium	0.002
7440-50-8	copper	0.002
7440-41-7	beryllium	0.002
	Acute Tox. 3, H301; Acute Tox. 2, H330	
	& Carc. 1B, H350; STOT RE 1, H372	
	🚯 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7440-43-9	cadmium (non-pyrophoric)	0.002
	Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
7440-28-0	· ·	0.001
,	Acute Tox. 2, H300; Acute Tox. 2, H330	
	STOT RE 2, H373	
7440-69-9		0.001
7782-49-2	selenium	0.001
,,02 -7-2	Acute Tox. 3, H301; Acute Tox. 3, H331	
	\bigcirc STOT RE 2, H373	
7732-18-5	Water	91.816

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.

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• *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.
- 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

WES Short-term value: 10 mg/m³, 4 ppm

Long-term value: 5.2 mg/m³, 2 ppm

• Additional information: The lists valid during the making were used as basis.

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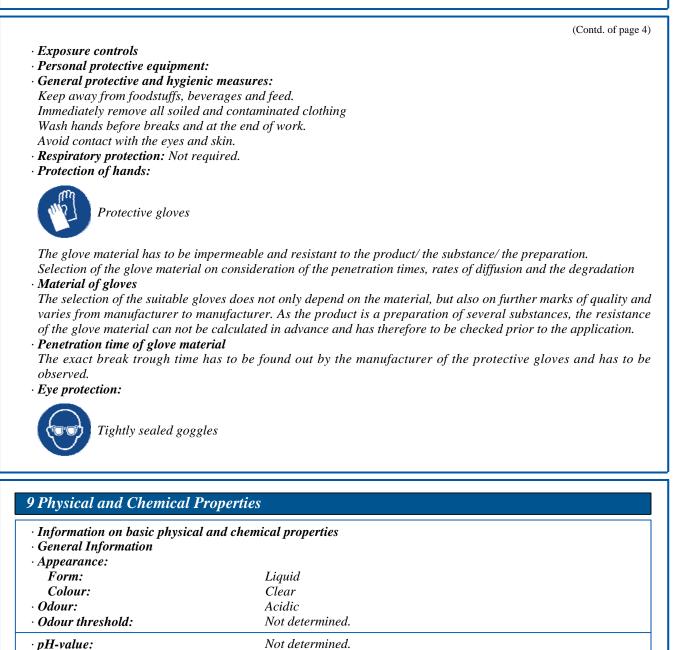


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• Decomposition temperature:



· 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.

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:	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:	91.8 %	
Solids content:	6.2 %	
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.
- · 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:

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12 Ecological Information

· Toxicity

Irritant

- 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.

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	
A A A A A A A A A A A A A A A A A A A	
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):	Warning: Corrosive substances. 80
EMS Number: Segregation groups Stowage Category	F-A,S-B Acids A
Stowage Code Transport in bulk according to Annex I.	
and the IBC Code	Not applicable.
Transport/Additional information:	
ADG 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
Transport category Tunnel restriction code	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

5 Regulato	ry information		
· Safety, hea 7732-18-5	Ith and environmental regulations/legislation specific for the Water	substance or mixture	91.816%
7440-70-2		🚸 Water-react. 2, H261	3.5%
		(Cor	ntd. on page 9



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7697-37-2 Nitric Acid	O x. Liq. 2, H272	2.0%
	🐼 Skin Corr. 1A, H314	

· Directive 2012/18/EU

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

· 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

H250 Catches fire spontaneously if exposed to air. H260 In contact with water releases flammable gases which may ignite spontaneously. H261 In contact with water releases flammable gases. H272 May intensify fire; oxidiser. H300 Fatal if swallowed. H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H351 Suspected of causing cancer. 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

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[·] National regulations:



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Contact:	
Within the USA:	1-(800)-762-4000
	1-(203)-712-8488
Abbreviations and	
RID: Règlement inter International Transport	national concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the t of Dangerous Goods by Rail)
	ivil Aviation Organisation en sur le transport des marchandises dangereuses par Route (European Agreement concerning the International s Goods by Road)
IMDG: International N	Iaritime Code for Dangerous Goods
	r Transport Association
	ventory of Existing Commercial Chemical Substances
ELINCS: European Li	st of Notified Chemical Substances
CAS: Chemical Abstra	cts Service (division of the American Chemical Society)
PBT: Persistent, Bioac	cumulative and Toxic
vPvB: very Persistent	und very Bioaccumulative
Pyr. Sol. 1: Pyrophorie	e solids – Category 1
Water-react. 1: Substa	nces and mixtures which in contact with water emit flammable gases – Category 1
Water-react. 2: Substa	nces and mixtures which in contact with water emit flammable gases – Category 2
Ox. Liq. 2: Oxidizing l	iquids – Category 2
Skin Corr. 1A: Skin co	rosion/irritation – Category 1A
Skin Irrit. 2: Skin corre	osion/irritation – Category 2
Eye Irrit. 2A: Serious e	yye damage/eye irritation – Category 2A