

\*

# according to WHS Regulations

Printing date 27.07.2021

Revision: 27.07.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

<u> </u>	cation	
Product ia	-	
Article nu Relevant i No further	ne: <u>Std, PerkinElmer Pure IV</u> amber: N9303941 identified uses of the substance or mixture and uses advised against r relevant information available. on of the substance / the mixture Laboratory chemicals	
	the supplier of the safety data sheet turer/Supplier:	
Shelton, C	report Avenue Connecticut 06484 USA CareUS@perkinelmer.com 1600	
Supplier/L	Local:	
Lvl 2, Bldg 530-540 S Glen Wave Melbourne VIC 3150 Australia 1-800-033 ausales@p Emergence CHEMTR CHEMTR	e	
Hazard(	s) Identification	
Classifica	tion of the substance or mixture	
	health hazard	
Carc. 1B	H350 May cause cancer.	
	corrosion	
Skin Corr.	. 1 H314 Causes severe skin burns and eye damage.	
	1 H318 Causes serious eye damage.	



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### Trade name: Std, PerkinElmer Pure IV

<ul> <li>Label elements</li> <li>GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).</li> <li>Hazard pictograms GHS05, GHS08</li> <li>Signal word Danger</li> <li>Hazard-determining components of labelling:</li> <li>Nitric Acid</li> <li>cadmium</li> <li>thalium</li> <li>iron</li> <li>Hazard statements</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H350 May cause cancer.</li> <li>Precautionary statements</li> <li>P260 Do not breathe dusts or mists.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P305+P351+P358 IF IN EVESS: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 Immediately call a POISON CENTER/doctor.</li> <li>P321 Specific treatment (see on this label).</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>Other hazards</li> <li>The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> </ul>		(Contd. of page 1)
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· <b><i>PBT</i></b> : Not applicable.	formaldehyde	28.
• <b>vPvB:</b> Not applicable.		
	• <b>vPvB:</b> Not ap	plicable.

# 3 Composition and Information on Ingredients

#### • Chemical characterisation: Mixtures

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

	10.0%
¢	
	0.1%
9	
	0.1%
	0.1%
OT RE 1, H372 '	
(Contd.	



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		of page
7440-28-0		0.1%
	<ul> <li>Acute Tox. 2, H300; Acute Tox. 2, H330</li> <li>STOT RE 2, H373</li> </ul>	
7440-43-9	cadmium	0.1%
	Acute Tox. 3, H301; Acute Tox. 2, H330 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
7440-48-4	cobalt Resp. Sens. 1, H334 Skin Sens. 1, H317	0.1%
Additional	Components	I
7732-18-5	-	87.79
	aluminium	0.1%
7439-93-2	lithium Water-react. 1, H260 Skin Corr. 1, H314	0.1%
7439-95-4	magnesium � Pyr. Sol. 1, H250; Water-react. 1, H260	0.1%
7439-96-5	manganese	0.1%
7440-09-7	potassium Water-react. 1, H260 Skin Corr. 1, H314	0.1%
7440-22-4	silver	0.1%
7440-23-5	sodium Water-react. 1, H260 Skin Corr. 1, H314	0.1%
7440-24-6	strontium Water-react. 1, H260	0.1%
7440-39-3	barium Water-react. 2, H261	0.1%
7440-42-8		0.1%
7440-47-3	chromium	0.1%
7440-50-8	copper	0.1%
7440-55-3	gallium Skin Corr. 1, H314	0.1%
7440-66-6		0.1%
7440-69-9		0.1%
7440-70-2	calcium Water-react. 2, H261	0.1%
7440-74-6		0.1%
SVHC		-
7439-92-1	lead	
7440-43-9	cadmium	
-		on page



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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
- · 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. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 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
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

# 6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. • 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. • 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. 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.

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## 7 Handling and Storage

· Handling:

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

• Information about fire - and explosion protection: Keep respiratory protective device available.

• 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/m<sup>3</sup>, 4 ppm Long-term value: 5.2 mg/m<sup>3</sup>, 2 ppm

#### 7440-02-0 nickel

WES Long-term value: 1 mg/m<sup>3</sup>

Metal: Sen

## 7440-43-9 cadmium

WES Long-term value: 0.01 mg/m<sup>3</sup> Note (g); as Cd

## 7440-48-4 cobalt

WES Long-term value: 0.05 mg/m<sup>3</sup> Sen

· 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. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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(Contd. of page 5) 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 9 Physical and Chemical Properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid Colour: Dark brown · Odour: Characteristic · Odour threshold: Not determined. · pH-value: Not determined. Change in condition *Melting point/freezing point:* Undetermined. Initial boiling point and boiling range: 100 °C Not applicable. · Flash point: · Flammability (solid, gas): Not applicable. · Decomposition temperature: Not determined. • Auto-ignition temperature: Product is not selfigniting. • Explosive properties: Product does not present an explosion hazard. Not determined. · Explosion limits: Not determined. Lower:

Not determined.



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	(Contd. of J	page 6)
• 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:	Fully miscible.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	87.7 %	
Solids content:	2.3 %	
· 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

· LD/LC50 values relevant for classification:

7440-43-9 cadmium

Oral LD50 225 mg/kg (rat)

- · Primary irritant effect:
- Skin corrosion/irritation Strong caustic effect on skin and mucous membranes.
- · Serious eye damage/irritation
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· 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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Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

• CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Carc. 1B

## 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.

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

- · 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.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

· UN-Number		
· ADG, IMDG, IATA	UN2031	
· UN proper shipping name		
ADG	2031 NITRIC ACID	
· IMDG, IATA	NITRIC ACID	



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Transport hazard class(es)	
ADG	
Â	
1 A A A A A A A A A A A A A A A A A A A	
8	
- Class - Label	8 (C1) Corrosive substances. 8
	0
IMDG, IATA	
E"T	
- Class	8 Corrosive substances.
Label	8
Packing group	
ADG, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	Strong acids D
Stowage Category Segregation Code	SG36 Stow "separated from" SGG18-alkalis.
Segregation Code	SG30 Slow "separated from" SGG6-cyanides
Transport in bulk according to Annex II of Mar	
and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	1L
Excepted quantities $(EQ)$	Code: E2
· · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	Ε
· IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(EQ)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml



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· UN ''Model Regulation'':

UN 2031 NITRIC ACID, 8, II

# 15 Regulatory information

·Safety, health and environmental regulations/legislation specific for the substance or mixture					
7732-18-5			87.7%		
	Nitric Acid	(A) Liz 2 11272	10.0%		
/09/-3/-2	Νιπε Αεια	Ox. Liq. 2, H272 Skin Corr. 1, H314	10.070		
7429-90-5	aluminium		0.1%		
· Australia: Priority Existing Chemicals					
None of the	None of the ingredients is listed.				

#### · Directive 2012/18/EU

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

· National regulations:

- Additional classification according to Decree on Hazardous Materials, Annex II: Carcinogenic hazardous material group III (dangerous).
- · 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.

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. *Exceptions can be made by the authorities in certain cases.* 

· Waterhazard class: Generally not hazardous for water.

• Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

7439-92-1 lead

7440-43-9 cadmium

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.

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(Contd. of page 10) H272 May intensify fire; oxidiser. H300 Fatal if swallowed. H301 Toxic if swallowed. H302 Harmful if swallowed. H314 Causes severe skin burns and eve damage. H317 May cause an allergic skin reaction. H330 Fatal if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. 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. 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids - Category 2 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 3: Acute toxicity - Category 3 Skin Corr. 1: Skin corrosion/irritation - Category 1 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity - Category 2 Carc. 1B: Carcinogenicity - Category 1B Carc. 2: Carcinogenicity – Category 2 Repr. 1A: Reproductive toxicity - Category 1A *Repr. 2: Reproductive toxicity – Category 2* STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 \* \* Data compared to the previous version altered.