

Printing date 07/05/2018 Review date 07/05/2018

1 Identification

- · Product identifier
- · Trade name: STD, Instrument Calibration Standard 1
- · Article number N9303816
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer, Inc.

710 Bridgeport Avenue

Shelton, Connecticut 06484 USA

CustomerCareUS@perkinelmer.com

203-925-4600

· Emergency telephone number:

CHEMTREC (within US) 800-424-9300

CHEMTREC (from outside US) +1 703-527-3887 (call collect)

CHEMTREC (within AU) +(61)-290372994

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS05
- · Signal word Danger
- Hazard-determining components of labeling:

Nitric Acid

· Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.
 P321 Specific treatment (see on this label).
 P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



 $\frac{3}{10}$ Health = $\frac{3}{10}$

Fire = 0

REACTIVITY 0 Reactivity = 0

· 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/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

7732-18-5 Water

- · Identification number(s)
- **EC** number: 231-791-2
- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

Hazardous	components:	
7697-37-2	Nitric Acid Ox. Liq. 2, H272 Skin Corr. 1A, H3	314 5.0%
Additional	Components	
7440-02-0	nickel	0.02%
7440-39-3	barium Water-react. 2, H261	0.002%
7440-41-7	beryllium 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	0.002%
7440-43-9	cadmium (non-pyrophoric) Acute Tox. 2, H330 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	0.002%
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= 1 10 1= =		(Contd. of pa
7440-47-3		0.002
7440-48-4	cobalt ♦ Resp. Sens. 1, H334; Carc. 2, H351 ↑ Skin Sens. 1, H317	0.002
7440-50-8	copper	0.002
7439-92-1	lead	0.002
7439-96-5	manganese	0.002
1313-27-5	molybdenum trioxide Carc. 2, H351 Eye Irrit. 2A, H319; STOT SE 3, H335	0.002
7440-38-2	Arsenic → Acute Tox. 3, H301; Acute Tox. 3, H331 → Carc. 1A, H350	0.002
7440-36-0	antimony	0.002
7782-49-2	selenium → Acute Tox. 3, H301; Acute Tox. 3, H331 → STOT RE 2, H373	0.002
7440-22-4	silver	0.002
7440-28-0	thallium Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	0.002
7440-29-1	thorium 🗞 Carc. 1A, H350	0.002
7440-61-1	uranium → Acute Tox. 2, H300; Acute Tox. 2, H330 → STOT RE 2, H373	0.002
7440-62-2	vanadium	0.002
7440-66-6	zinc	0.002
7429-90-5	aluminium	0.002
147-71-7	(-)-tartaric acid ♦ Skin Irrit. 2, H315	0.001
7732-18-5		94.94

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.

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- · After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a 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 fighting measures that suit the environment.
- · 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

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.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing 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.

· Protective Action Criteria for Chemicals

7 697-37-2 1	Nitric Acid	0.16 ppm
7440-02-0 r	nickel	4.5 mg/m^3
7440-39-3 l	parium	1.5 mg/m^3
7440-41-7 l	peryllium	$0.0023 \ mg/m^3$
7440-43-9	cadmium (non-pyrophoric)	0.10 mg/m^3
7440-47-3 c	rhromium	1.5 mg/m³
7440-48-4 c	cobalt	0.18 mg/m^3
7440-50-8 d	copper	$3 mg/m^3$
7439-92-1 l	ead	0.15 mg/m^3
7439-96-5 1	nanganese	3 mg/m^3
1313-27-5 1	nolybdenum trioxide	2.3 mg/m ³
7440-38-2	Arsenic	1.5 mg/m^3
7440-36-0 d	ıntimony	1.5 mg/m^3

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7702 40 2	1*	(Contd. of page
7782-49-2		0.6 mg/m^3
7440-22-4		0.3 mg/m^3
7440-28-0		0.06 mg/m^3
7440-29-1		30 mg/m^3
7440-61-1		0.6 mg/m^3
7440-62-2		3 mg/m^3
7440-66-6	zinc	$6 mg/m^3$
PAC-2:		
7697-37-2	Vitric Acid	24 ppm
7440-02-0	nickel	50 mg/m³
7440-39-3	parium	180 mg/m^3
7440-41-7	peryllium	0.025 mg/m
7440-43-9	cadmium (non-pyrophoric)	$0.76 mg/m^3$
7440-47-3	chromium	17 mg/m³
7440-48-4	cobalt	$2 mg/m^3$
7440-50-8	copper	33 mg/m^3
7439-92-1	ead	120 mg/m^3
7439-96-5	nanganese	5 mg/m^3
	nolybdenum trioxide	43 mg/m^3
7440-38-2	Arsenic Transfer of the Arseni	17 mg/m^3
7440-36-0	untimony	13 mg/m³
7782-49-2	·	6.6 mg/m^3
7440-22-4	ilver	170 mg/m^3
7440-28-0	hallium	3.3 mg/m^3
7440-29-1	horium	330 mg/m^3
7440-61-1	 ıranium	$5 mg/m^3$
7440-62-2	 vanadium	5.8 mg/m^3
7440-66-6	- rinc	21 mg/m^3
PAC-3:		
7697-37-2	Vitric Acid	92 ppm
7440-02-0		99 mg/m^3
7440-39-3		1,100 mg/m
7440-41-7		0.1 mg/m^3
	cadmium (non-pyrophoric)	4.7 mg/m^3
7440-47-3	17 1 /	99 mg/m³
7440-48-4		20 mg/m^3
7440-50-8		$\frac{20 \text{ mg/m}^3}{200 \text{ mg/m}^3}$
7439-92-1		700 mg/m^3
7439-96-5		1,800 mg/m
	nanganese nolybdenum trioxide	$\frac{1,000 \text{ mg/m}^3}{260 \text{ mg/m}^3}$



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		(Contd. of page 5
7440-38-2		100 mg/m^3
7440-36-0	antimony	80 mg/m^3
7782-49-2	selenium	40 mg/m^3
7440-22-4	silver	990 mg/m³
7440-28-0	thallium	20 mg/m ³
7440-29-1	thorium	$2,000 \text{ mg/m}^3$
7440-61-1	uranium	30 mg/m^3
7440-62-2	vanadium	35 mg/m ³
7440-66-6	zinc	120 mg/m^3

7 Handling and storage

- · Handling:
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: The product is not flammable.
- · 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:

Store in a cool place.

Keep receptacle tightly sealed.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

7697-37-2 Nitric Acid

PEL Long-term value: 5 mg/m³, 2 ppm

REL Short-term value: 10 mg/m³, 4 ppm
Long-term value: 5 mg/m³, 2 ppm

TLV Short-term value: 10 mg/m³, 4 ppm
Long-term value: 5.2 mg/m³, 2 ppm

- · Additional information: The lists that were valid during the creation 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.

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- Avoid contact with the eyes and skin.
- · Breathing equipment: 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

9 Physical and chemical properties

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 or safety glasses

Information on basic physical and	cnemical properties	
General Information		
Appearance: Form:	Liquid	
Color:	Transparent	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	

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		(Contd. of page
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	e r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	94.9 %	
VOC content:	0.00 %	
Solids content:	0.1 %	
· 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:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

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

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(Contd. of page 8) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 2B 7440-02-0 nickel 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 3 7440-47-3 chromium 7440-48-4 cobalt 2B 7439-92-1 lead 2B 7440-38-2 Arsenic 7782-49-2 selenium 3 7440-29-1 thorium 1 · NTP (National Toxicology Program) 7440-02-0 nickel R 7440-41-7 beryllium K 7440-43-9 cadmium (non-pyrophoric) K 7440-48-4 cobalt R 7439-92-1 lead R K 7440-38-2 Arsenic OSHA-Ca (Occupational Safety & Health Administration) 7440-43-9 cadmium (non-pyrophoric) 7440-38-2 Arsenic

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior 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. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- $\cdot \textit{Other adverse effects} \ \textit{No further relevant information available}.$

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Dispose of container and materials in accordance with local, regional and national regulations.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, ADR, IMDG, IATA	UN3264
UN proper shipping name DOT ADR	Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid) 3264 Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric ac
Transport hazard class(es)	
DOT	
COGROSVE	
Class	8 Corrosive substances
Label ADR	8
Class	8 (C1) Corrosive substances
Label	8
- IMDG, IATA	
· Class	8 Corrosive substances
· Label	8



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	(Contd. of page
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F- A , S - B
Segregation groups	Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	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, INORGANIC, N.O. (NITRIC ACID), 8, III

· Safety, nea	ulth and environmental regulation	ns/legislation specific for the substance or mixture	
7732-18-5	Water		94.941%
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%
7440-02-0	nickel	Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	0.02%
· Sara			
· Section 35.	5 (extremely hazardous substanc	es):	
7697-37-2	Nitric Acid		
· Section 31.	3 (Specific toxic chemical listing	s):	
7697-37-2	Nitric Acid		
7440-02-0	nickel		
7440-39-3	barium		



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7440-41-7	
7440-43-9	cadmium (non-pyrophoric)
7440-47-3	chromium
7440-48-4	cobalt
7440-50-8	copper
7439-92-1	lead
7439-96-5	manganese
1313-27-5	molybdenum trioxide
7440-38-2	Arsenic
7440-36-0	antimony
7782-49-2	selenium
7440-22-4	silver
7440-28-0	thallium
7440-62-2	vanadium
7440-66-6	zinc
7429-90-5	aluminium
All ingredie	cic Substances Control Act): ents are listed.
	Nitric Acid
7440-02-0	
7440-39-3	
7440-41-7	
	cadmium (non-pyrophoric)
7440-47-3	
7440-48-4	
7440-50-8	
7439-92-1	
	manganese
	molybdenum trioxide
7440-38-2	
7440-36-0	antimony
7782-49-2	
7440-22-4	
7440-28-0	
7440-29-1	
7440-61-1	
7440-62-2	vanadium
7440-66-6	
7429-90-5	aluminium
147_71_7	(-)-tartaric acid

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		(Contd. of page
7732-18-5		
Proposition		
	known to cause cancer:	
7440-02-0		
7440-41-7		
	cadmium (non-pyrophoric)	
7440-48-4		
7439-92-1		
7440-38-2	Arsenic	
	known to cause reproductive toxicity for females:	
7439-92-1	lead	
Chemicals	known to cause reproductive toxicity for males:	
7440-43-9	cadmium (non-pyrophoric)	
7439-92-1	lead	
Chemicals	known to cause developmental toxicity:	
	cadmium (non-pyrophoric)	
7439-92-1	,	
Cancaraca	nity categories	
_	ronmental Protection Agency)	
7440-39-3		D, CBD(inh), NL(oral
7440-39-3		B1, K/L(inh), CBD(ord
	cadmium (non-pyrophoric)	B1, K/L(uni), CBD(or
7440-47-3	` /	D D
7440-50-8		D
7439-92-1		B2
	manganese	D
7440-38-2		A
7782-49-2		D
7440-22-4		D
7440-66-6		D, I, II
	shold Limit Value established by ACGIH)	2,1,11
7440-02-0	•	
7440-02-0		
7440-39-3		
	cadmium (non-pyrophoric)	
7440-43-9	` /	
/ 7 7 U - 7 / - 3		
7440-18-1	Cooun	
7440-48-4	land	I to the second of the second
7440-48-4 7439-92-1 7440-38-2		



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7440-61-1	uranium A1
7429-90-5	aluminium A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
7440-02-0	nickel
7440-41-7	· ·
7440-43-9	cadmium (non-pyrophoric)
7440-38-2	Arsenic
7440-61-1	uranium

- · 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.

- · Water hazard 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 shall not be held liable for any damage resulting from handling or from contact with the product.

- · 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

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PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Ox. Liq. 2: Oxidizing liquids – Category

Ox. Liq. 2: Oxidizing liquids – Category 2
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

* Data compared to the previous version altered.

LISA