

Printing date 10/03/2017 Review date 10/03/2017

1 Identification

- · Product identifier
- · Trade name: STANDARD-3ICPMS MULTIELEM CAL
- · Article number N9300233
- · 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

· 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.

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

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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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



Health = 3 Fire = 0Reactivity = 0

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ISO 11014:2009 and GHS 2007

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· HMIS-ratings (scale 0 - 4)

HEALTH 3 Health = 3FIRE 0 Fire = 0REACTIVITY 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.

Hazardous	components:	
7697-37-2	Nitric Acid Ox.	Liq. 2, H272 5.0% a Corr. 1A, H314
Additional	Components	
7440-38-2	Arsenic → Acute Tox. 3, H301; Acute Tox. 3, H331 → Carc. 1A, H350	0.001%
513-77-9	barium carbonate ••• Acute Tox. 4, H302	0.0019
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, 1	0.0019 H335
7440-69-9	bismuth	0.0019
7440-43-9	cadmium (non-pyrophoric) Acute Tox. 2, H330 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	0.0019
7440-48-4	cobalt Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317	0.0019
7789-02-8	9-02-8 Chromium Nitrate Nonahydrate Ox. Sol. 2, H272 Acute Tox. 3, H301; Acute Tox. 3, H311 Skin Corr. 1C, H314 Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335	
7789-18-6	caesium nitrate Ox. Sol. 3, H272	0.0019
7440-50-8	*	0.0019
7439-89-6	iron	0.0019
7440-55-3	gallium Skin Corr. 1C, H314	0.0019

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		(Contd. of page
7439-97-6		0.001
	Acute Tox. 2, H330 Repr. 1B, H360; STOT RE 1, H372	
7440-74-6	Indium	0.0019
7757-79-1	potassium nitrate	0.0019
	♦ Ox. Sol. 2, H272	
554-13-2	lithium carbonate	0.0019
	Acute Tox. 3, H301 Eye Irrit. 2A, H319	
7439-95-4	magnesium	0.0019
	O Pyr. Sol. 1, H250; Water-react. 1, H260	
7439-96-5	manganese	0.0019
	sodium carbonate	0.0019
	♦ Eye Irrit. 2A, H319	
1317-36-8	lead monoxide	0.0019
	♦ Repr. 1A, H360; STOT RE 2, H373	
	Acute Tox. 4, H302; Acute Tox. 4, H332	
13126-12-0	rubidium nitrate	0.0019
	③ Ox. Sol. 1, H271	
7782-49-2	selenium	0.0019
	 ♦ Acute Tox. 3, H301; Acute Tox. 3, H331 ♦ STOT RE 2, H373 	
1633-05-2	strontium carbonate	0.0019
10102-45-1	thallium nitrate	0.001
	Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	
7803-55-6	ammonium trioxovanadate	0.001
	♠ Acute Tox. 2, H300	
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
7440-66-6	zinc	0.0019
	♦ Water-react. 2, H261	
7429-90-5	aluminium	0.001
7440-22-4	silver	0.0019
7440-61-1	uranium	0.001
	Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	
7440-70-2	calcium	0.0019
	♦ Water-react. 2, H261	
7440-02-0	*	0.001
	© Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	
7732-18-5		94.979

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.

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- · 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 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

· PAC-1:		
7697-37-2	Nitric Acid	0.16 ppm
7440-38-2	Arsenic	1.5 mg/m3
513-77-9	barium carbonate	2.2 mg/m3
7440-41-7	beryllium	0.0023 mg/m3
7440-69-9	bismuth	15 mg/m3
7440-43-9	cadmium (non-pyrophoric)	0.10 mg/m3
7440-48-4	cobalt	0.18 mg/m3
7789-18-6	caesium nitrate	7.2 mg/m3
7440-50-8	copper	3 mg/m3
7439-89-6	iron	3.2 mg/m3
7440-55-3	gallium	30 mg/m3
7439-97-6	mercury	0.15 mg/m3
7440-74-6	Indium	0.3 mg/m3
7757-79-1	potassium nitrate	9 mg/m3
554-13-2	lithium carbonate	3.1 mg/m3
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7420.05.4		(Contd. of page
	magnesium	18 mg/m3
	manganese	3 mg/m3
	sodium carbonate	7.6 mg/m3
	lead monoxide	0.16 mg/m3
	rubidium nitrate	14 mg/m3
7782-49-2		0.6 mg/m3
	strontium carbonate	71 mg/m3
	thallium nitrate	0.078 mg/m3
	ammonium trioxovanadate	0.01 mg/m3
7440-66-6		6 mg/m3
7440-22-4	silver	0.3 mg/m3
7440-61-1		0.6 mg/m3
7440-02-0	nickel	4.5 mg/m3
· PAC-2:		
7697-37-2	Nitric Acid	24 ppm
7440-38-2	Arsenic	17 mg/m3
513-77-9	barium carbonate	270 mg/m3
7440-41-7	beryllium	0.025 mg/m
7440-69-9	bismuth	170 mg/m3
7440-43-9	cadmium (non-pyrophoric)	0.76 mg/m3
7440-48-4	cobalt	2 mg/m3
7789-18-6	caesium nitrate	79 mg/m3
7440-50-8	copper	33 mg/m3
7439-89-6		35 mg/m3
7440-55-3	gallium	330 mg/m3
7439-97-6	mercury	1.7 mg/m3
7440-74-6	Indium	3.3 mg/m3
7757-79-1	potassium nitrate	100 mg/m3
	lithium carbonate	34 mg/m3
7439-95-4	magnesium	200 mg/m3
	manganese	5 mg/m3
	sodium carbonate	83 mg/m3
	lead monoxide	130 mg/m3
	rubidium nitrate	150 mg/m3
7782-49-2		6.6 mg/m3
	strontium carbonate	780 mg/m3
	thallium nitrate	4.3 mg/m3
	ammonium trioxovanadate	0.11 mg/m3
7440-66-6		21 mg/m3
7440-22-4		170 mg/m3
7440-61-1		5 mg/m3
7440-02-0		50 mg/m3
/ 470-02-0	mener	(Contd. on page



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	(Contd. of page
PAC-3:	
7697-37-2 Nitric Acid	92 ppm
7440-38-2 Arsenic	100 mg/m3
513-77-9 barium carbonate	1,600 mg/m3
7440-41-7 beryllium	0.1 mg/m3
7440-69-9 bismuth	990 mg/m3
7440-43-9 cadmium (non-pyrophoric)	4.7 mg/m3
7440-48-4 cobalt	20 mg/m3
7789-18-6 caesium nitrate	470 mg/m3
7440-50-8 copper	200 mg/m3
7439-89-6 iron	150 mg/m3
7440-55-3 gallium	2,000 mg/m3
7439-97-6 mercury	8.9 mg/m3
7440-74-6 Indium	20 mg/m3
7757-79-1 potassium nitrate	600 mg/m3
554-13-2 lithium carbonate	210 mg/m3
7439-95-4 magnesium	1,200 mg/m ³
7439-96-5 manganese	1,800 mg/m3
497-19-8 sodium carbonate	500 mg/m3
1317-36-8 lead monoxide	750 mg/m3
13126-12-0 rubidium nitrate	920 mg/m3
7782-49-2 selenium	40 mg/m3
1633-05-2 strontium carbonate	4,700 mg/m ³
10102-45-1 thallium nitrate	26 mg/m3
7803-55-6 ammonium trioxovanadate	80 mg/m3
7440-66-6 zinc	120 mg/m3
7440-22-4 silver	990 mg/m3
7440-61-1 uranium	30 mg/m3
7440-02-0 nickel	99 mg/m3

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: 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 receptacle tightly sealed.
- \cdot *Specific end use*(s) *No further relevant information available.*

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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.

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

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

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Color: Transparent

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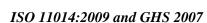
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	(Con	td. of page
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
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.	
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/water	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	95.0 %	
VOC content:	0.00 %	
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.

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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.

· Carcinogenic categories

7440-38-2	Arsenic	
7440-41-7	beryllium	
7440-43-9	cadmium (non-pyrophoric)	
7440-48-4	cobalt	
7439-97-6	mercury	
1317-36-8	lead monoxide	
7782-49-2	selenium	
7440-02-0	nickel	
NTP (Nati	onal Toxicology Program)	
7440-38-2	Arsenic	
7440-41-7	beryllium	
7440-43-9	cadmium (non-pyrophoric)	
7440-48-4	cobalt	
1317-36-8	lead monoxide	
7440-02-0	nickel	
OSHA-Ca	(Occupational Safety & Health Administration)	
7440-38-2	Arsenic	
7440-43-9	cadmium (non-pyrophoric)	

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.

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- · 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.
- · Other adverse effects No further relevant information available.

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.

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· UN-Number · DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name	
$\cdot DOT$	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
$\cdot ADR$	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 Acid)

- · Transport hazard class(es)
- $\cdot DOT$



· Class· Label8 Corrosive substances8

 $\cdot ADR$



· Class 8 (C1) Corrosive substances

· Label

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· IMDG, IATA	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
· Class	8 Corrosive substances
· Label	8
· Packing group · DOT, ADR, IMDG, IATA	III
· 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 MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	
$\cdot DOT$	
· Quantity limitations	On passenger aircraft/rail: 5 L
2	On cargo aircraft only: 60 L
· <i>ADR</i>	
· 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 (\widetilde{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, hea	lth and environmental regulations/legisla	tion specific for the substance or mixture	
7732-18-5	Water		94.97%
7697-37-2	Nitric Acid	© Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%
513-77-9	barium carbonate	♦ Acute Tox. 4, H302	0.001%
· Sara		,	
· Section 35.	5 (extremely hazardous substances):		





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	(Cor	ntd. of page 11)
· Section 313	3 (Specific toxic chemical listings):	
7697-37-2	Nitric Acid	
7440-38-2	? Arsenic	
513-77-9	barium carbonate	
7440-41-7	beryllium	
7440-43-9	cadmium (non-pyrophoric)	
7440-48-4	4 cobalt	
7789-02-8	Chromium Nitrate Nonahydrate	
7789-18-6	caesium nitrate	
7440-50-8	R copper	
7439-97-6	6 mercury	
7757-79-1	potassium nitrate	
554-13-2	lithium carbonate	
7439-96-5	manganese	
	lead monoxide	
13126-12-0	rubidium nitrate	
7782-49-2	? selenium	
10102-45-1	thallium nitrate	
7803-55-6	ammonium trioxovanadate	
7440-66-6	5 zinc	
7429-90-5	aluminium	
7440-22-4	silver	
7440-02-0	nickel	
· TSCA (Tox	cic Substances Control Act):	
	ents are listed.	
7697-37-2	Nitric Acid	
7440-38-2	? Arsenic	
513-77-9	barium carbonate	
7440-41-7	beryllium	
7440-69-9	bismuth	
7440-43-9	cadmium (non-pyrophoric)	
7440-48-4	t cobalt	
7789-18-6	caesium nitrate	
7440-50-8	3 copper	
7439-89-6	iron	
7440-55-3	gallium	
7439-97-6	6 mercury	
7440-74-6	5 Indium	
7757-79-1	potassium nitrate	
554-13-2	lithium carbonate	
7439-95-4	magnesium	
7439-96-5	manganese	
	sodium carbonate	
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1317-36-8	lead monoxide	(Contd. or page 12
13126-12-0	rubidium nitrate	
7782-49-2	selenium	
1633-05-2	strontium carbonate	
10102-45-1	thallium nitrate	
7803-55-6	ammonium trioxovanadate	
7440-66-6	zinc	
7429-90-5	aluminium	
7440-22-4	silver	
7440-61-1	uranium	
7440-70-2	calcium	
7440-02-0	nickel	
· Proposition	65	
	nown to cause cancer:	
7440-38-2		
7440-41-7		
	cadmium (non-pyrophoric)	
7440-48-4		
	lead monoxide	
7440-02-0 1	nickel	
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
7440-43-9 cadmium (non-pyrophoric)		
Chemicals known to cause developmental toxicity:		
7440-43-9 cadmium (non-pyrophoric)		
7439-97-6 1	nercury	
554-13-2	ithium carbonate	
Canagragan	ity categories	
_	onmental Protection Agency)	
7440-38-2	• • ·	A
	barium carbonate	D, CBD(inh), NL(oral)
7440-41-7		B1, K/L(inh), CBD(oral)
	cadmium (non-pyrophoric)	B1
7440-50-8	\ 12 1 /	D
7439-97-6	**	D
	manganese	D
	lead monoxide	B2
7782-49-2		D
	thallium nitrate	II
7440-66-6		D, I, II
7440-22-4		D
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(Contd. of page 13) · TLV (Threshold Limit Value established by ACGIH) 7440-38-2 Arsenic AI513-77-9 barium carbonate *A4* 7440-41-7 beryllium A17440-43-9 cadmium (non-pyrophoric) A27440-48-4 cobalt *A3* 7439-97-6 mercury A41317-36-8 lead monoxide A3 7429-90-5 aluminium A4 7440-61-1 uranium AI7440-02-0 nickel A5 · NIOSH-Ca (National Institute for Occupational Safety and Health) 7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7440-61-1 uranium 7440-02-0 nickel

- · 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.

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

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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · 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

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Trade name: STANDARD-3ICPMS MULTIELEM CAL

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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.

· Contact:

With in the USA: 1-(800)-762-4000 Out side 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

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

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.

USA •