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acc. to OSHA HCS

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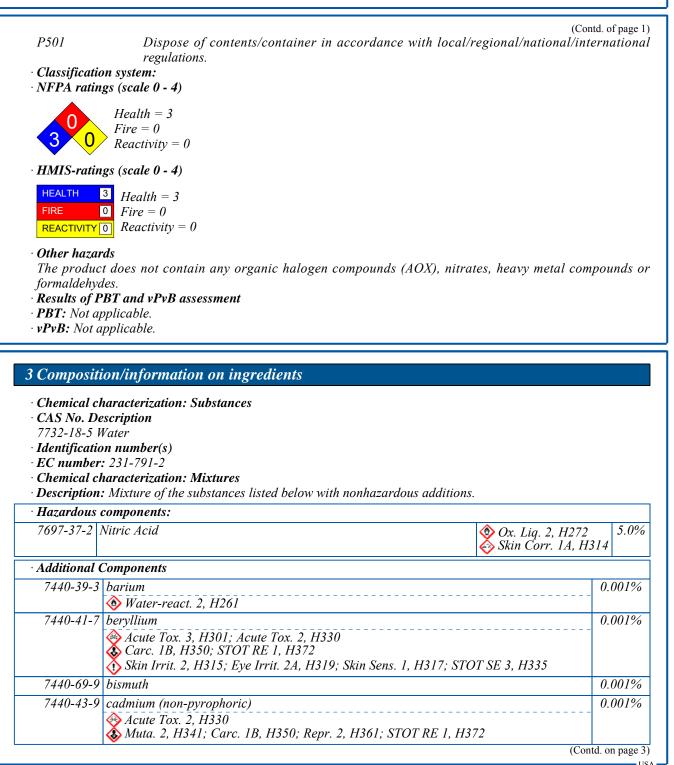
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Product iden	tifier
Trade name: Article numb	Multi-Element Calibration Standard 3
	er N9301/20 f the substance / the mixture Laboratory chemicals
Application o	j ine substance / the mixture Laboratory chemicals
	supplier of the safety data sheet
Manufacture	r/Supplier:
PerkinElmer,	Inc.
710 Bridgepo	
	necticut 06484 USA
	eUS@perkinelmer.com
203-925-4600	
	e lephone number: (within US) 800-424-9300
	(within OS) 800-424-9500 (from outside US) +1 703-527-3887 (call collect)
	(within AU) + (61) - 290372994
CHEMINEC	(**************************************
Hanand (g)	identification
11 <i>uzur u</i> (s) (
Classification	n of the substance or mixture
FT	
Co 🖉	rrosion
$\mathbf{\nabla}$	
Skin Corr. 1E	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Label elemen	
	is e ments The product is classified and labeled according to the Globally Harmonized System (GHS)
Hazard picto	
Signal word	
Hazard-deter	mining components of labeling:
Nitric Acid	mining components of thoring.
Hazard state	nents
	severe skin burns and eye damage.
Precautionar	
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
	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 wat
	shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+P331+	P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres
P310	and easy to do. Continue rinsing. Immediately call a poison center/doctor.
P310 P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P 101	Store locked up.
P303 P405	(Contd. on pag



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		ontd. of page
7440-70-2		0.001%
	Water-react. 2, H261	0.000
7440-46-2	caesium Water-react. 1, H260 Skin Corr. 1B, H314; Eye Dam. 1, H318	0.001%
7440-47-3	chromium	0.001%
7440-48-4	cobalt Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317	0.0019
7440-50-8	copper	0.001%
7440-55-3		- 0.001%
7440-74-6	Indium	0.001%
7439-89-6	iron	0.001%
7439-92-1	lead Acute Tox. 3, H301 Carc. 2, H351; Repr. 1A, H360-H362 Acute Tox. 4, H332	0.001%
7439-93-2	lithium Water-react. 1, H260 Skin Corr. 1B, H314	0.0019
7439-95-4	magnesium Pyr. Sol. 1, H250; Water-react. 1, H260	_ 0.001%
1317-35-7	trimanganese tetraoxide	0.001%
7440-02-0	nickel Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	0.0019
7440-38-2		0.0019
7440-09-7	potassium Water-react. 1, H260 Skin Corr. 1B, H314	0.0019
7440-17-7	rubidium Water-react. 1, H260 Skin Corr. 1B, H314; Eye Dam. 1, H318	0.0019
7782-49-2	selenium & Acute Tox. 3, H301; Acute Tox. 3, H331 & STOT RE 2, H373	0.0019
7440-22-4	silver	0.001%
7440-23-5		0.0019
		ontd. on page



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		(Contd. of page 2
10042-76-9	strontium nitrate	0.001%
	🔇 Ox. Sol. 2, H272	
7440-28-0) thallium	0.001%
	 Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373 	
13520-83-7	7 uranyl nitrate, hexahydrate	0.001%
	Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	
7440-62-2	vanadium	0.001%
7440-66-6	5 zinc	0.001%
	Water-react. 2, H261	
7429-90-5	5 aluminium	0.001%
7732-18-5	Water	94.971%

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 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

- 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.

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[•] Extinguishing media

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	(Contd. of page
Ensure adequate ventilation. • Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment	t.
See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
• PAC-1:	
7697-37-2 Nitric Acid	0.16 ppm
7440-39-3 barium	$1.5 mg/m^3$
7440-41-7 beryllium	0.0023 mg/m
7440-69-9 bismuth	15 mg/m ³
7440-43-9 cadmium (non-pyrophoric)	0.10 mg/m^3
7440-46-2 caesium	$5.6 mg/m^3$
7440-47-3 chromium	$1.5 mg/m^3$
7440-48-4 cobalt	$0.18 mg/m^3$
7440-50-8 copper	3 mg/m ³
7440-55-3 gallium	30 mg/m ³
7440-74-6 Indium	$0.3 mg/m^3$
7439-89-6 iron	3.2 mg/m ³
7439-92-1 lead	0.15 mg/m ³
7439-93-2 lithium	3.3 mg/m ³
7439-95-4 magnesium	18 mg/m ³
1317-35-7 trimanganese tetraoxide	$4.2 mg/m^3$
7440-02-0 nickel	$4.5 mg/m^3$
7440-38-2 Arsenic	1.5 mg/m ³
7440-09-7 potassium	$2.3 mg/m^3$
7440-17-7 rubidium	$3.9 mg/m^3$
7782-49-2 selenium	$0.6 \ mg/m^3$
7440-22-4 silver	$0.3 mg/m^3$
7440-23-5 sodium	13 mg/m ³
10042-76-9 strontium nitrate	5.7 mg/m ³
7440-28-0 thallium	0.06 mg/m^3
13520-83-7 uranyl nitrate, hexahydrate	1.3 mg/m ³
7440-62-2 vanadium	3 mg/m ³
7440-66-6 zinc	6 mg/m ³
• PAC-2:	1
7697-37-2 Nitric Acid	24 ppm
7440-39-3 barium	180 mg/m ³
7440-41-7 beryllium	0.025 mg/m
7440-69-9 bismuth	170 mg/m ³
7440-43-9 cadmium (non-pyrophoric)	0.76 mg/m ³
(, , , , , ,) cummum (non pyrophone)	(Contd. on page

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7440-46-2	caesium	(Contd. of page 61 mg/m ³
	chromium	17 mg/m ³
7440-48-4		$\frac{1}{2 mg/m^3}$
7440-50-8		33 mg/m ³
7440-55-3		330 mg/m ³
7440-74-6	-	3.3 mg/m ³
7439-89-6		35 mg/m ³
7439-92-1	lead	120 mg/m ³
7439-93-2	lithium	36 mg/m ³
7439-95-4	magnesium	200 mg/m ³
	trimanganese tetraoxide	6.9 mg/m ³
7440-02-0	5	50 mg/m^3
7440-38-2	Arsenic	17 mg/m ³
7440-09-7	potassium	25 mg/m^3
7440-17-7		$\frac{43 \text{ mg/m}^3}{43 \text{ mg/m}^3}$
7782-49-2	selenium	6.6 mg/m ³
7440-22-4	silver	170 mg/m ³
7440-23-5	sodium	140 mg/m ³
10042-76-9	strontium nitrate	$62 mg/m^3$
7440-28-0	thallium	3.3 mg/m ³
13520-83-7	uranyl nitrate, hexahydrate	7 <i>mg/m³</i>
7440-62-2	vanadium	5.8 mg/m ³
7440-66-6	zinc	21 mg/m ³
PAC-3:	L	· ·
7697-37-2	Nitric Acid	92 ppm
7440-39-3	barium	1,100 mg/m
7440-41-7	beryllium	$0.1 \ mg/m^3$
7440-69-9	bismuth	990 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	4.7 mg/m ³
7440-46-2	caesium	370 mg/m ³
7440-47-3	chromium	99 mg/m ³
7440-48-4	cobalt	20 mg/m ³
7440-50-8	**	200 mg/m ³
7440-55-3	gallium	2,000 mg/m
7440-74-6	Indium	20 mg/m ³
7439-89-6	iron	150 mg/m ³
7439-92-1	lead	700 mg/m ³
7439-93-2	lithium	220 mg/m ³
7439-95-4	magnesium	1,200 mg/m
1217 25 7	trimanganese tetraoxide	41 mg/m ³



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		(Contd. of page 6)
7440-02-0	nickel	99 mg/m ³
7440-38-2	Arsenic	100 mg/m ³
7440-09-7	potassium	150 mg/m ³
7440-17-7	rubidium	260 mg/m ³
7782-49-2	selenium	40 mg/m ³
7440-22-4	silver	990 mg/m ³
7440-23-5	sodium	870 mg/m ³
10042-76-9	strontium nitrate	370 mg/m ³
7440-28-0	thallium	20 mg/m ³
13520-83-7	uranyl nitrate, hexahydrate	42 mg/m ³
7440-62-2	vanadium	35 mg/m ³
7440-66-6	zinc	120 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.
- 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.

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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 General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Transparent	
Odor:	Characteristic	
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.	



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		(Contd. of page
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
<i>Density at 20 °C (68 °F):</i>	1 g/cm ³ (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	r 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.

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

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(Contd. of page 9) Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (Inte	ernational Agency for Research on Cancer)	
7440-41-7	beryllium	1
7440-43-9	cadmium (non-pyrophoric)	1
7440-47-3	chromium	3
7440-48-4	cobalt	2B
7439-92-1	lead	2B
7440-02-0	nickel	2B
7440-38-2	Arsenic	1
7782-49-2	selenium	3
· NTP (Natio	onal Toxicology Program)	
7440-41-7	beryllium	K
7440-43-9	cadmium (non-pyrophoric)	K
7440-48-4	cobalt	R
7439-92-1	lead	R
7440-02-0	nickel	R
7440-38-2	Arsenic	K
· 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.
- · Other adverse effects 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.

• **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	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 Acia
• Transport hazard class(es)	
·DOT	
CONROSIVE 3	
· Class	8 Corrosive substances
· Label	8
· ADR	
AL 200	
· Class	8 (C1) Corrosive substances
· Label	8
· IMDG, IATA	
A A A A A A A A A A A A A A A A A A A	
· Class	8 Corrosive substances
· Label	8
· Packing group	

[·] Uncleaned packagings:



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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: El
1 1 C	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: El
	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.S (NITRIC ACID), 8, III

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15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture 7732-18-5 Water 94.971% 7697-37-2 Nitric Acid 5.0% & Ox. Liq. 2, H272 Skin Corr. 1A, H314 7440-41-7 beryllium 0.001% 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 · Sara · Section 355 (extremely hazardous substances): 7697-37-2 Nitric Acid · Section 313 (Specific toxic chemical listings): 7697-37-2 Nitric Acid

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	(Contd. of page
7440-39-3	
	7 beryllium
	cadmium (non-pyrophoric)
	3 chromium
7440-48-4	
7440-50-8	
7439-92-1	lead
	7 trimanganese tetraoxide
7440-02-0) nickel
7440-38-2	? Arsenic
7782-49-2	elenium
7440-22-4	t silver
10042-76-9	strontium nitrate
7440-28-0	thallium
7440-62-2	vanadium
7440-66-6	j zinc
7429-90-5	5 aluminium
All ingredie	cic Substances Control Act): ents are listed. Nitric Acid
7440-39-3	
	beryllium
7440-69-9	
	cadmium (non-pyrophoric)
7440-70-2	
7440-46-2	
	3 chromium
7440-48-4	
7440-50-8	
7440-55-3	
7440-74-6	
7439-89-6	
7439-92-1	
7439-93-2	
	⁴ magnesium
	7 trimanganese tetraoxide
7440-02-0	
7440-38-2	? Arsenic
	7 potassium
7440-09-7	7 rubidium



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	2 selenium
7440-22-4	4 silver
7440-23-5	5 sodium
10042-76-9	9 strontium nitrate
7440-28-0	0 thallium
7440-62-2	2 vanadium
7440-66-0	5 zinc
7429-90-3	5 aluminium
7732-18-5	5 Water
· Proposition	
	known to cause cancer:
7440-41-7	beryllium
	cadmium (non-pyrophoric)
7440-48-4	
7439-92-1	lead
7440-02-0	nickel
7440-38-2	Arsenic
· Chemicals	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:
7440-43-9	cadmium (non-pyrophoric)
7439-92-1	lead

· EPA (Environmental Protection Agency) 7440-39-3 barium D, CBD(inh), NL(oral) 7440-41-7 beryllium B1, K/L(inh), CBD(oral) 7440-43-9 cadmium (non-pyrophoric) *B1* 7440-47-3 chromium D 7440-50-8 copper D *B2* 7439-92-1 lead 1317-35-7 trimanganese tetraoxide D 7440-38-2 Arsenic A 7782-49-2 selenium D 7440-22-4 silver D 7440-66-6 zinc D, I, II (Contd. on page 15)



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7440-39-3	barium	A_{-}
7440-41-7	beryllium	A
7440-43-9	cadmium (non-pyrophoric)	Až
7440-47-3	chromium	A_{\pm}
7440-48-4	cobalt	A
7439-92-1	lead	A
7440-02-0	nickel	A.
7440-38-2	Arsenic	A
13520-83-7	uranyl nitrate, hexahydrate	A
7429-90-5	aluminium	A-
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
7440-41-7	beryllium	
7440-43-9	cadmium (non-pyrophoric)	
7440-02-0	nickel	
7440-38-2	Arsenic	
13520-83-7	uranyl nitrate, hexahydrate	

· 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

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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.