



Printing date 04/22/2014 Review date 04/22/2014

1 Identification

- · Product identifier
- · Trade name: STD-AS QC 21 ELEMENTS
- · Article number N9300281
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Environmental Health

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)

2 Hazard(s) identification

· Classification of the substance or mixture



Corrosion

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

Acute Tox. 5 H303 May be harmful if swallowed.

Acute Tox. 5 H313 May be harmful in contact with skin.

Acute Tox. 5 H333 May be harmful if inhaled.

- · 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:

Hydrofluoric acid

· Hazard statements

H303 May be harmful if swallowed.

H313 May be harmful in contact with skin.

H333 May be harmful if inhaled.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P405 Store locked up.

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

regulations.

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ISO 11014:2009 and GHS 2007

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



Health = 2Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· 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

Aquatic Chronic 4, H413

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Hazardous	components:	
		≤5%
	💠 Skin Irrit. 2, H315	
7664-39-3	Hydrofluoric acid	0.1-<1%
	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1A, H314	
· Additional	Components	
	7697-37-2 7664-39-3 · Additional	 Hazardous components: 7697-37-2 Nitric Acid solution ♦ Skin Irrit. 2, H315 7664-39-3 Hydrofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1A, H314 Additional Components

•	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1A, H314	
Additional (Components	
133-37-9	(+-)-tartaric acid	0.1-<
7440-36-0	antimony	< 0.1
7440-38-2	Arsenic Acute Tox. 3, H301; Acute Tox. 3, H331 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1
7440-41-7	V 1	<0.1
7440-43-9	cadmium (non-pyrophoric) ♠ Acute Tox. 2, H330 ♠ Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372 ♠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1
7440-70-2	calcium Water-react. 2, H261	<0.1
7440-47-3	chromium	< 0.1
7440-48-4	cobalt Resp. Sens. 1, H334 Skin Sens. 1, H317	<0.1

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		ontd. of pag
7440-50-8	copper	< 0.19
7439-89-6	iron	< 0.19
7439-92-1	lead → Acute Tox. 3, H301 → Repr. 1A, H360; STOT RE 2, H373 → Acute Tox. 4, H332	<0.19
7439-93-2	lithium Water-react. 1, H260 Skin Corr. 1B, H314	<0.1%
7439-95-4	magnesium Pyr. Sol. 1, H250; Water-react. 1, H260	<0.19
1317-35-7	trimanganese tetraoxide	< 0.19
1313-27-5	molybdenum trioxide STOT RE 2, H373 Eye Irrit. 2A, H319; STOT SE 3, H335	<0.19
7440-02-0	nickel & Carc. 2, H351 ↑ Skin Sens. 1, H317	<0.1%
7782-49-2	selenium Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Chronic 4, H413	<0.19
10042-76-9	strontium nitrate Ox. Sol. 2, H272	<0.19
7440-28-0	thallium Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 4, H413	<0.1%
7440-32-6	titanium Self-heat. 1, H251; Water-react. 1, H260	<0.19
7440-62-2	vanadium	< 0.19
7440-66-6	zinc Water-react. 2, H261 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.19
7732-18-5	Water	92.5-9.

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Rub in Ca-gluconate solution or Ca-gluconate gel immediately.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Immediately call a doctor.

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- · 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course.

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).

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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · 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.

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· Control parameters

· Components with limit values that require monitoring at the workplace:

7664-39-3 Hydrofluoric acid

PEL Long-term value: 3 ppm

as F

REL Long-term value: 2.5 mg/m³, 3 ppm

Ceiling limit value: 5* mg/m³, 6* ppm

*15-min, as F

TLV Long-term value: 0.41 mg/m³, 0.5 ppm

Ceiling limit value: 1.64 mg/m³, 2 ppm

as F; Skin; BEI

· Ingredients with biological limit values:

7664-39-3 Hydrofluoric acid

BEI 3 mg/g creatinine

Medium: urine

Time: prior to shift

Parameter: Flourides (background)

10 mg/g creatinine Medium: urine Time: end of shift

Parameter: Flourides (background)

- · 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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

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· Eye protection: Goggles recommended during refilling.

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· Information on basic physical and c	homical proporties	
· Injormation on basic physical and c · General Information	nemicai properties	
· Appearance:		
Form:	Liquid	
Color:	Transparent	
· Odor:	Odorless	
· Odour 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 mm Hg)	
· Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	94.8 %	
Solids content:	0.2 %	
· Other information	No further relevant information available.	

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10 Stability and reactivity

- · Reactivity
- · 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: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

· Carcinogenic categories

7440-48-4 cobalt 2 7439-92-1 lead 2 7440-02-0 nickel 1	· IARC (Intern	national Agency for Research on Cancer)	
7440-43-9 cadmium (non-pyrophoric) 7440-47-3 chromium 7440-48-4 cobalt 2 2 7439-92-1 lead 7440-02-0 nickel 1 7782-49-2 selenium 3 NTP (National Toxicology Program) 7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium OSHA-Ca (Occupational Safety & Health Administration)	7440-38-2 A	rsenic	1
7440-47-3 chromium 3 7440-48-4 cobalt 2 7439-92-1 lead 2 7440-02-0 nickel 1 7782-49-2 selenium 3 • NTP (National Toxicology Program) 7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7440-41-7 be	eryllium	1
7440-48-4 cobalt 2 7439-92-1 lead 2 7440-02-0 nickel 1 7782-49-2 selenium 3 • NTP (National Toxicology Program) *** 7440-38-2 Arsenic *** 7440-41-7 beryllium *** 7440-43-9 cadmium (non-pyrophoric) *** 7439-92-1 lead *** 7440-02-0 nickel *** 7782-49-2 selenium *** • OSHA-Ca (Occupational Safety & Health Administration) ***	7440-43-9 ca	admium (non-pyrophoric)	1
7439-92-1 lead 2 7440-02-0 nickel 1 7782-49-2 selenium 3 • NTP (National Toxicology Program) 7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7440-47-3 cl	hromium	3
7440-02-0 nickel 1 7782-49-2 selenium 3 • NTP (National Toxicology Program) 7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7440-48-4 ca	obalt	2B
7782-49-2 selenium • NTP (National Toxicology Program) 7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7439-92-1 le	ead each	2B
· NTP (National Toxicology Program) 7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7440-02-0 ni	ickel	1
7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7782-49-2 se	elenium	3
7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	· NTP (Nation	al Toxicology Program)	
7440-43-9 cadmium (non-pyrophoric) 7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7440-38-2 A	rsenic	K
7439-92-1 lead 7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7440-41-7 be	eryllium	K
7440-02-0 nickel 7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7440-43-9 ca	admium (non-pyrophoric)	K
7782-49-2 selenium • OSHA-Ca (Occupational Safety & Health Administration)	7439-92-1 le	ead .	R
· OSHA-Ca (Occupational Safety & Health Administration)	7440-02-0 ni	ickel	R
	7782-49-2 se	elenium	R
7440-38-2 Arsenic	· OSHA-Ca (O	Occupational Safety & Health Administration)	
1	7440-38-2 A	rsenic	
7440-43-9 cadmium (non-pyrophoric)	7440-43-9 cc	admium (non-pyrophoric)	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.

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· 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.

- · 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 of together with household garbage. Do not allow product to reach sewage system.

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

14 Transpor	t informatio	on
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	UN-	Nun	ıber
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· DOT, ADR, IMDG, IATA

UN3264

· UN proper shipping name

 $\cdot DOT, ADR$

Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid solution, Hydrogen fluoride)

· IMDG, IATA CORROSIVE LIQ

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Acid solution, HYDROGEN FLUORIDE)

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



· Class 8 Corrosive substances.

· Label

 $\cdot ADR$



· Class 8 (C1) Corrosive substances

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· Label	8
· IMDG, IATA	
W. S.	
· 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
· Transport in bulk according to Annex I	II of
MARPOL73/78 and the IBC Code	Not applicable.
· UN ''Model Regulation'':	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid solution, Hydrogen fluoride), 8, III

15 Regul	latory inj	<i>formation</i>
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· Safety, health and environmental regulations/legislation specific for the substance or mixture	
7697-37-2 Nitric Acid solution	≤5%
💠 Skin Irrit. 2, H315	
133-37-9 (+-)-tartaric acid	0.1-<1%
7664-39-3 Hydrofluoric acid	0.1-<1%
Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1A, H314	

· Sara			
· Section 35.	· Section 355 (extremely hazardous substances):		
7697-37-2	Nitric Acid solution		
· Section 31.	3 (Specific toxic chemical listings):		
7697-37-2	Nitric Acid solution		
7440-36-0	antimony		
7440-38-2	Arsenic		
7440-41-7	beryllium		
7440-43-9	cadmium (non-pyrophoric)		
7440-47-3	chromium		
7440-48-4			
7440-50-8	copper		
7439-92-1	lead		
1313-27-5	molybdenum trioxide		

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7110 05 5		(Contd. of page
7440-02-0		
7782-49-2		
7440-28-0		
7440-62-2		
7440-66-6		
	cic Substances Control Act): cents are listed.	
7697-37-2	Nitric Acid solution	
133-37-9	(+-)-tartaric acid	
7440-36-0	antimony	
7440-38-2	Arsenic	
7440-41-7	beryllium	
7440-43-9	cadmium (non-pyrophoric)	
7440-70-2	calcium	
7440-47-3	chromium	
7440-48-4	cobalt	
7440-50-8	copper	
7439-89-6		
7439-92-1	lead	
7439-93-2	lithium	
7439-95-4	magnesium	
	trimanganese tetraoxide	
Proposition		
-	known to cause cancer:	
7440-41-7	beryllium	
	cadmium (non-pyrophoric)	
7440-48-4		
7439-92-1	lead	
7440-02-0		
	known to cause reproductive toxicity for females:	
7439-92-1		
	known to cause reproductive toxicity for males:	
	cadmium (non-pyrophoric)	
	lead	
	known to cause developmental toxicity:	
	cadmium (non-pyrophoric)	
7439-92-1	lead	
	nity categories	
	ronmental Protection Agency)	
7440-38-2		A
7440-41-7	<u> </u>	B1, K/L(inh), CBD(ord
7440-43-9	cadmium (non-pyrophoric)	BI
7110 17 2	chromium	D

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		(0	Contd. of page
7440-50-8	copper	D	
7439-92-1	lead	B2	
1317-35-7	trimanganese tetraoxide	D	
7782-49-2	selenium	D	
7440-66-6	zinc	D, I, II	
· TLV (Thre	shold Limit Value established by ACGIH)		
7440-38-2	Arsenic		I
7440-41-7	beryllium		1
7440-43-9	cadmium (non-pyrophoric)		1
7440-47-3	chromium		1
7440-48-4	cobalt		1
7439-92-1	lead		1
7440-02-0	nickel		1
· NIOSH-Ca	(National Institute for Occupational Safety and Health)		
7440-38-2	Arsenic		
7440-41-7	beryllium		
7440-43-9	cadmium (non-pyrophoric)		
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:

Hydrofluoric acid

· Hazard statements

H303 May be harmful if swallowed.

H313 May be harmful in contact with skin.

H333 May be harmful if inhaled.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

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.

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· 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.

· 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 Organization

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)

Acute Tox. 2: Acute toxicity, Hazard Category 2

Acute Tox. 5: Acute toxicity, Hazard Category 5

Acute Tox. 1: Acute toxicity, Hazard Category 1

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

* Data compared to the previous version altered.