

Printing date 01/24/2018 Review date 01/24/2018

1 Identification

- · Product identifier
- · Trade name: STD, Analytes B
- · Article number N9303829
- · 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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS07
- · Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water.

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).

P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

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



Health = 2 Fire = 0Reactivity = 0

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ISO 11014:2009 and GHS 2007

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· HMIS-ratings (scale 0 - 4)

HEALTH 2 Health = 2FIRE 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.

3 Composition/information on ingredients

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

· Hazardous components:

7732-18-5 water

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

	components.	
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314
Additional	Components	
7440-47-3	chromium	0.002%
7440-48-4	cobalt	0.002%
	Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317	
7440-50-8	copper	0.002%
1317-35-7	trimanganese tetraoxide	0.002%
7440-02-0	nickel	0.002%
	© Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	
7440-62-2	vanadium	0.002%
7782-49-2	selenium	0.001%
	Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373	
7440-43-9	cadmium (non-pyrophoric)	0.001%
	Acute Tox. 2, H330 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	?
7440-66-6	zinc	0.001%
	🔷 Water-react. 2, H261	
7440-38-2		0.001%
	Acute Tox. 3, H301; Acute Tox. 3, H331 Carc. 1A, H350	
7440-22-4	silver	0.00059
7732-18-5	Water	97.9835
	1	





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4 First-aid measures

- · Description of first aid measures
- · 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. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult 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 Not required.
- · 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).

· 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

7697-37-2 Nitric Acid	0.16 ppm
7440-47-3 chromium	1.5 mg/m^3
7440-48-4 cobalt	0.18 mg/m
7440-50-8 copper	$3 mg/m^3$
1317-35-7 trimanganese tetraoxide	4.2 mg/m^3
7440-02-0 nickel	4.5 mg/m^3
7440-62-2 vanadium	3 mg/m^3
7782-49-2 selenium	0.6 mg/m^3
7440-43-9 cadmium (non-pyrophoric)	0.10 mg/m
7440-66-6 zinc	6 mg/m³
7440-38-2 Arsenic	1.5 mg/m^3
7440-22-4 silver	0.3 mg/m³
PAC-2:	·
7697-37-2 Nitric Acid	24 ppm



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7440-47-3 chromium	(Contd. of page 17 mg/m^3
7440-48-4 cobalt	$\frac{2 \text{ mg/m}^3}{}$
7440-50-8 copper	33 mg/m³
1317-35-7 trimanganese tetraoxide	$6.9 mg/m^3$
7440-02-0 nickel	50 mg/m^3
7440-62-2 vanadium	5.8 mg/m^3
7782-49-2 selenium	6.6 mg/m³
7440-43-9 cadmium (non-pyrophoric)	0.76 mg/m
7440-66-6 zinc	21 mg/m^3
7440-38-2 Arsenic	17 mg/m^3
7440-22-4 silver	170 mg/m^3
PAC-3:	
7697-37-2 Nitric Acid	92 ppm
7440-47-3 chromium	99 mg/m³
7440-48-4 cobalt	20 mg/m^3
7440-50-8 copper	200 mg/m
1317-35-7 trimanganese tetraoxide	41 mg/m³
7440-02-0 nickel	99 mg/m³
7440-62-2 vanadium	35 mg/m³
7782-49-2 selenium	40 mg/m³
7440-43-9 cadmium (non-pyrophoric)	$4.7 \ mg/m^3$
7440-66-6 zinc	120 mg/m
7440-38-2 Arsenic	100 mg/m
7440-22-4 silver	990 mg/m

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.

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· 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 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
Odor: Odorless
Odor threshold: Not determined.

· pH-value: Not determined.

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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.	
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:	98.0 %	
VOC content:	0.00 %	
Other information	No further relevant information available.	

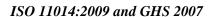
10 Stability and reactivity

- · 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: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.

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· Additional toxicological information:

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

· Carcinogenic categories

	ernational Agency for Research on Cancer)	
7440-47-3	chromium	3
7440-48-4	cobalt	28
7440-02-0	nickel	2B
7782-49-2	selenium	3
7440-43-9	cadmium (non-pyrophoric)	1
7440-38-2	Arsenic	1
NTP (Nati	ional Toxicology Program)	
7440-48-4	cobalt	R
7440-02-0	nickel	R
7440-43-9	cadmium (non-pyrophoric)	K
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.

- · 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 · DOT, ADR · IMDG, IATA	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Aci
· Transport hazard class(es)	
· DOT	
CORROSIVE 3	
· Class	8 Corrosive substances
· Label	8
· <i>ADR</i>	
· Class · Label	8 (C1) Corrosive substances 8
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): · EMS Number:	80 F-A,S-B
· EMS Number: · Segregation groups	r-A,3-B 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:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L



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(Contd. of page 8) $\cdot ADR$ · 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 \cdot 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.S. (NITRIC ACID), 8, III

G 6 -	ry information		
	S	ons/legislation specific for the substance or mixture	
7732-18-5			97.9835%
	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	2.0%
7440-48-4	cobalt	Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317	0.002%
Sara			
Section 35	5 (extremely hazardous substanc	ces):	
7697-37-2	Nitric Acid		
Section 31	3 (Specific toxic chemical listing	<i>qs</i>):	
7697-37-2	Nitric Acid		
7440-47-3	chromium		
7440-48-4	cobalt		
7440-50-8	copper		
1317-35-7	trimanganese tetraoxide		
7440-02-0			
7440-62-2	vanadium		
7782-49-2	selenium		
7440-43-9	cadmium (non-pyrophoric)		
7440-66-6	zinc		
7440-38-2	Arsenic		
7440-22-4	silver		
	xic Substances Control Act): ents are listed.		
U	Nitric Acid		
7440-47-3			
7440-48-4			
7440-50-8			
	trimanganese tetraoxide		
7440-02-0	_		

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	al v.	(Contd. of pag
	2 vanadium	
	2 selenium	
	g cadmium (non-pyrophoric)	
7440-66-6		
	2 Arsenic	
7440-22-4		
7732-18		
Proposition		
	ls known to cause cancer:	
7440-48-4		
7440-02-0		
	9 cadmium (non-pyrophoric)	
7440-38-2	2 Arsenic	
Chemical	ls known to cause reproductive toxicity for females:	
None of the	he ingredients is listed.	
Chemical	ls known to cause reproductive toxicity for males:	
7440-43-	9 cadmium (non-pyrophoric)	
Chomical	ls known to cause developmental toxicity:	
	is known to cause aevelobmental toxicity:	
7440-43-9	genity categories	
7440-43-9 Cancerog EPA (En	genity categories vironmental Protection Agency)	ln.
7440-43-5 Cancerog EPA (En 7440-47-	genity categories vironmental Protection Agency) 3 chromium	D D
7440-43-9 Canceros EPA (En 7440-47-, 7440-50-6	genity categories vironmental Protection Agency) 3 chromium 8 copper	D
7440-43-5 Cancerog EPA (En 7440-47-5 7440-50-6 1317-35-6	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide	D D
7440-43-4 Cancerog EPA (En 7440-47-, 7440-50-6 1317-35-7 7782-49-2	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium	D D D
7440-43-4 Cancerog EPA (En 7440-47- 7440-50-6 1317-35-7 7782-49-2 7440-43-4	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric)	D D D B1
7440-43-5 Cancerog EPA (Em 7440-47-, 7440-50-6 1317-35-7 7782-49-7 7440-43-5 7440-66-6	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc	D D D B1 D, I,
7440-43-4 Cancerog EPA (En 7440-47-1 7440-50-1 1317-35-1 7782-49-1 7440-66-1 7440-38-1	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic	D D D B1 D, I,
7440-43-5 Cancerog EPA (En. 7440-47-, 7440-50-6 1317-35-, 7782-49-5 7440-43-5 7440-66-6 7440-38-2 7440-22-4	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver	D D D B1 D, I,
7440-43-5 Cancerog EPA (En 7440-47-5 7440-50-6 1317-35-7 7440-43-5 7440-66-6 7440-38-7 7440-22-4 TLV (Thr	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver reshold Limit Value established by ACGIH)	D D D B1 D, I, A D
7440-43-4 Cancerog EPA (Ent.) 7440-47-2 7440-50-6 1317-35-2 7782-49-2 7440-66-6 7440-38-2 7440-22-4 TLV (Thi.)	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver reshold Limit Value established by ACGIH) 3 chromium	D D D B1 D, I, A D
7440-43-4 Cancerog EPA (Ent.) 7440-47, 7440-50-6 1317-35, 7782-49, 7440-66-6 7440-38, 7440-22-4 TLV (Thr.) 7440-47, 7440-48-4	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver reshold Limit Value established by ACGIH) 3 chromium 4 cobalt	D D D D BI D, I, A D
7440-43-4 Cancerog EPA (En 7440-47-2 7440-50-6 1317-35-6 7440-43-9 7440-66-6 7440-22-4 TLV (Thr 7440-48-4 7440-02-6	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver reshold Limit Value established by ACGIH) 3 chromium 4 cobalt 0 nickel	D D D B1 D, I, A D
7440-43-4 Cancerog EPA (Ent. 7440-47 7440-50-6 1317-35 7782-49 7440-66-6 7440-38 7440-22-6 TLV (Thu 7440-47 7440-48-6 7440-02-6 7440-33-1	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver reshold Limit Value established by ACGIH) 3 chromium 4 cobalt 0 nickel 9 cadmium (non-pyrophoric)	D D D B1 D, I, A D
7440-43-4 Cancerog EPA (Ent. 7440-47- 7440-50-6 1317-35-7 7782-49-7 7440-48-7 7440-48-7 7440-48-7 7440-48-7 7440-48-7 7440-48-7 7440-48-7	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver reshold Limit Value established by ACGIH) 3 chromium 4 cobalt 0 nickel 9 cadmium (non-pyrophoric) 2 Arsenic	D D D B1 D, I, A D
7440-43-4 Cancerog EPA (Ent. 7440-47 7440-50-6 1317-35-5 7782-49-2 7440-66-6 7440-38-2 7440-47 7440-48-4 7440-02-6 7440-38-2 7440-38-2 7440-38-2	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver reshold Limit Value established by ACGIH) 3 chromium 4 cobalt 0 nickel 9 cadmium (non-pyrophoric) 2 Arsenic	D D D D BI D, I, A D
7440-43-4 Cancerog EPA (Ent. 7440-47-, 7440-50-6 1317-35-, 7782-49-, 7440-63-, 7440-22-4 TLV (Thr. 7440-47-, 7440-43-, 7440-38-, 7440-38-, 7440-38-, 7440-38-, NIOSH-C	genity categories vironmental Protection Agency) 3 chromium 8 copper 7 trimanganese tetraoxide 2 selenium 9 cadmium (non-pyrophoric) 6 zinc 2 Arsenic 4 silver reshold Limit Value established by ACGIH) 3 chromium 4 cobalt 0 nickel 9 cadmium (non-pyrophoric) 2 Arsenic	D D D B1 D, I, A D

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS07
- · Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

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H319 Causes serious eye irritation.

· Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water.

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).

P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

· 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.

· 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 Irrit. 2: Skin corrosion/irritation - Category 2

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Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A ·* Data compared to the previous version altered.

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