

Printing date 07/09/2018 Review date 07/09/2018

1 Identification

- · Product identifier
- · Trade name: STD, Spike Sample Standard 1 (water)
- · Article number N9303839
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer, Inc.

710 Bridgeport Avenue

Shelton, Connecticut 06484 USA

CustomerCareUS@perkinelmer.com

203-925-4600

· Emergency telephone number:

CHEMTREC (within US) 800-424-9300

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

CHEMTREC (within AU) +(61)-290372994

2 Hazard(s) identification

· Classification of the substance or mixture



Corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.

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

Nitric Acid

· Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

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

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

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

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

shower.

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

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

and easy to do. Continue rinsing.

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

P405 Store locked up.

(Contd. on page 2)



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

(Contd. of page 1)

P501

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

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



Health = 3Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 3Fire = 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
- · Identification number(s)
- · EC number: 231-791-2
- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

7697-37-2	Nitric Acid	♠ Ox. Liq. 2, H272♦ Skin Corr. 1A, H3	5.0%
Additional	Components		
87-69-4	(+)-tartaric acid		0.9%
	♦ Eye Irrit. 2A, H319		
7664-39-3	Hydrofluoric acid		0.1%
	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1A, H314		
7439-89-6	iron		0.05%
7440-66-6	zinc		0.025%
	♦ Water-react. 2, H261		
7440-39-3	barium		0.025%
	♦ Water-react. 2, H261		
7440-47-3	chromium		0.01%
7440-50-8	copper		0.01%



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

- 120 0 5 -		(Contd. of pag
7439-96-5	manganese	0.01%
7440-02-0	nickel	0.01%
	© Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	
7440-36-0	antimony	0.01%
7440-62-2	vanadium	0.01%
7440-48-4	cobalt	0.01%
	Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317	
7439-92-1	lead	0.005%
	Acute Tox. 3, H301 Carc. 2, H351; Repr. 1A, H360-H362 Acute Tox. 4, H332	
7440-38-2	Arsenic	0.0059
	Acute Tox. 3, H301; Acute Tox. 3, H331 Carc. 1A, H350	
7440-41-7	beryllium	0.0025
	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	
7440-43-9	cadmium (non-pyrophoric)	0.0025
	Acute Tox. 2, H330 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
7782-49-2	selenium	0.0025
	Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373	
7440-28-0	thallium	0.0025
	Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	
7440-22-4	silver	0.0025
7732-18-5	Water	93.8075

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.

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: 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.

(Contd. on page 4)



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

(Contd. of page 3)

· 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.
- 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
87-69-4 (+)-tartaric acid	1.6 mg/m³
7439-89-6 iron	3.2 mg/m³
7440-66-6 zinc	6 mg/m^3
7440-39-3 barium	1.5 mg/m^3
7440-47-3 chromium	1.5 mg/m ³
7440-50-8 copper	$3 mg/m^3$
7439-96-5 manganese	$3 mg/m^3$
7440-02-0 nickel	4.5 mg/m^3
7440-36-0 antimony	1.5 mg/m^3
7440-62-2 vanadium	3 mg/m^3
7440-48-4 cobalt	0.18 mg/m^3
7439-92-1 lead	0.15 mg/m^3
7440-38-2 Arsenic	1.5 mg/m^3
7440-41-7 beryllium	0.0023 mg/r
7440-43-9 cadmium (non-pyrophoric)	0.10 mg/m^3
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Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

7702 40 2 1	•	(Contd. of pag
7782-49-2 sele		0.6 mg/m^3
7440-28-0 thal		0.06 mg/m^3
7440-22-4 silve	<u>r </u>	0.3 mg/m^3
· PAC-2:		
7697-37-2 Nitr		24 ppm
87-69-4 (+)-	artaric acid	17 mg/m^3
7439-89-6 iron		35 mg/m^3
7440-66-6 zinc		21 mg/m³
7440-39-3 bari	um	180 mg/m ²
7440-47-3 chro		17 mg/m³
7440-50-8 сорр		33 mg/m ³
7439-96-5 man	zanese	$5 mg/m^3$
7440-02-0 nick	el .	50 mg/m ³
7440-36-0 anti	nony	13 mg/m³
7440-62-2 vand	dium	5.8 mg/m^3
7440-48-4 cobo	lt	$2 mg/m^3$
7439-92-1 lead		120 mg/m ³
7440-38-2 Arse	nic	17 mg/m³
7440-41-7 bery	!lium	0.025 mg/r
7440-43-9 cadı	nium (non-pyrophoric)	0.76 mg/m
7782-49-2 sele	ium	6.6 mg/m^3
7440-28-0 thal	ium	3.3 mg/m^3
7440-22-4 silve	r	170 mg/m ³
· PAC-3:		
7697-37-2 Nitr	c Acid	92 ppm
87-69-4 (+)-	artaric acid	100 mg/m^3
7439-89-6 iron		150 mg/m ³
7440-66-6 zinc		120 mg/m ³
7440-39-3 bari	ım	1,100 mg/r
7440-47-3 chro	mium	99 mg/m³
7440-50-8 сорр	er	200 mg/m ³
7439-96-5 man	zanese	1,800 mg/r
7440-02-0 nick	el	99 mg/m³
7440-36-0 anti	nony	80 mg/m^3
7440-62-2 vand	dium	35 mg/m^3
7440-48-4 cobe	lt	20 mg/m^3
7439-92-1 lead		700 mg/m^3
7440-38-2 Arse	nic	100 mg/m^3
7440-41-7 bery	llium	0.1 mg/m^3
7440-43-9 cadı	nium (non-pyrophoric)	4.7 mg/m^3



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

		(Contd. of page 5)
7782-49-2	selenium	40 mg/m³
7440-28-0	thallium	20 mg/m³
7440-22-4	silver	990 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: The product is not flammable.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: 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
	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
	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

(Contd. on page 7)



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

(Contd. of page 6)

· 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

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Transparent	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.11 g/cm³ (9.26295 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Evaporation rate Solubility in / Miscibility with	Not determined.	

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Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

		(Contd. of page 7
· Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	93.8 %	
VOC content:	0.00 %	
Solids content:	0.2 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

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

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

Irritant

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
7440-47-3	chromium	3
7440-02-0	nickel	2B
7440-48-4	cobalt	2B
7439-92-1	lead	2B
7440-38-2	Arsenic	1
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Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

		(Contd. of page 8)
7440-41-7	beryllium	1
7440-43-9	cadmium (non-pyrophoric)	1
7782-49-2	selenium	3
· NTP (Nati	onal Toxicology Program)	
7440-02-0	nickel	R
7440-48-4	cobalt	R
7439-92-1	lead	R
7440-38-2	Arsenic	K
7440-41-7	beryllium	K
7440-43-9	cadmium (non-pyrophoric)	K
· 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.
- 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.



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

(Contd. of page 9)

UN-Number	
DOT, ADR, IMDG, IATA	UN3264
UN proper shipping name	
DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, Hydro
ADR	fluoride) 3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Ac
ADR	Hydrogen fluoride)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric A
	HYDROGEN FLUORIDE)
Transport hazard class(es)	
DOT	
^	
Control of the Contro	
B	
Class	8 Corrosive substances
Label	8
ADR	
ADR	
£2.	
~	
Class	8 (C1) Corrosive substances
Label	8
· IMDG, IATA	
FE	
<u></u>	
8	
Class	8 Corrosive substances
Label	8
Packing group	***
DOT, ADR, IMDG, IATA	III
Environmental hazards:	37
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler): EMS Number:	80 F-A,S-B
Segregation groups	Acids
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.

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Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

	(Contd. of page 1
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: 1 L
2 ,	On cargo aircraft only: 30 L
\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)	IL
Excepted quantities (\widetilde{EQ})	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
Č	(NITRIC ACID, HYDROGEN FLUORIDE), 8, III

· Safety, health and environmental regulations/legislation specific for the substance or mixture			
7732-18-5 Water		93.8075	
7697-37-2 Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%	
87-69-4 (+)-tartaric acid	♦ Eye Irrit. 2A, H319	0.9%	
Sara	<u> </u>	•	
Section 355 (extremely hazardous substances):			
7697-37-2 Nitric Acid			
Section 313 (Specific toxic chemical listings):			
7697-37-2 Nitric Acid			
7440-66-6 zinc			
7440-39-3 barium			
7440-47-3 chromium			
7440-50-8 copper			
7439-96-5 manganese			
7440-02-0 nickel			
7440-36-0 antimony			
7440-62-2 vanadium			
7440-48-4 cobalt			
7439-92-1 lead			



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

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7440-38-2		
	beryllium	
	cadmium (non-pyrophoric)	
7782-49-2	selenium	
7440-28-0	thallium	
7440-22-4	silver	
	xic Substances Control Act): ients are listed.	
7697-37-2	Nitric Acid	
87-69-4	(+)-tartaric acid	
7439-89-6	iron	
7440-66-6	zinc	
7440-39-3	barium	
7440-47-3	chromium	
7440-50-8		
	manganese	
7440-02-0		
7440-36-0	antimony	
	vanadium	
7440-48-4		
7439-92-1		
7440-38-2		
	beryllium	
	cadmium (non-pyrophoric)	
7782-49-2		
7440-28-0		
7440-22-4		
7732-18-5		
· Propositio		
	s known to cause cancer:	
7440-02-0		
7440-48-4		
7439-92-1		
7440-38-2		
	beryllium	
	cadmium (non-pyrophoric)	
7439-92-1	known to cause reproductive toxicity for females:	
· Chemicals 7439-92-1	known to cause reproductive toxicity for males:	



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

(Contd. of page 12) 7440-43-9 cadmium (non-pyrophoric) Chemicals known to cause developmental toxicity: 7439-92-1 lead 7440-43-9 cadmium (non-pyrophoric) · Cancerogenity categories · EPA (Environmental Protection Agency) 7440-66-6 zinc D, I, II 7440-39-3 barium D, CBD(inh), NL(oral) 7440-47-3 chromium D7440-50-8 copper \overline{D} D 7439-96-5 manganese 7439-92-1 lead В2 7440-38-2 Arsenic 7440-41-7 beryllium B1, K/L(inh), CBD(oral) 7440-43-9 cadmium (non-pyrophoric) B17782-49-2 selenium D7440-22-4 silver D TLV (Threshold Limit Value established by ACGIH) 7440-39-3 barium $\overline{A4}$ 7440-47-3 chromium A47440-02-0 nickel A57440-48-4 cobalt A37439-92-1 lead A37440-38-2 Arsenic A17440-41-7 beryllium A17440-43-9 cadmium (non-pyrophoric) A2· NIOSH-Ca (National Institute for Occupational Safety and Health) 7440-02-0 nickel 7440-38-2 Arsenic 7440-41-7 beryllium 7440-43-9 cadmium (non-pyrophoric)

· 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.



Printing date 07/09/2018 Review date 07/09/2018

Trade name: STD, Spike Sample Standard 1 (water)

(Contd. of page 13)

16 Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer shall not be held liable for any damage resulting from handling or from contact with the product.

· Department issuing SDS: Environmental, Health and Safety

· Contact:

Within the USA: 1-(800)-762-4000 Outside the USA: 1-(203)-712-8488

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

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.