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*
1 Identification

· **Product identifier**

· **Trade name: STD, Analytes (ILM 05.1)**
· **Article number** N9303831
· **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**

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.
P321	Specific treatment (see on this label).
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.

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

Health = 2
Fire = 0
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	2
FIRE	0
REACTIVITY	0

Health = 2
Fire = 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.*

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3 Composition/information on ingredients

· **Chemical characterization: Substances**
· **CAS No. Description**
7732-18-5 Water
· **Identification number(s)**
· **EC number:** *231-791-2*
· **Chemical characterization: Mixtures**
· **Description:** *Mixture of the substances listed below with nonhazardous additions.*

· **Hazardous components:**			
7697-37-2	*Nitric Acid*	*Ox. Liq. 2, H272* *Skin Corr. 1A, H314*	*2.0%*

· **Additional Components**		
147-71-7	*(-)-tartaric acid* *Skin Irrit. 2, H315*	*0.2%*
7664-39-3	*Hydrofluoric acid* *Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330* *Skin Corr. 1A, H314*	*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*	*0.0002%*
7440-47-3	*chromium*	*0.0002%*
7440-48-4	*cobalt* *Resp. Sens. 1, H334; Carc. 2, H351* *Skin Sens. 1, H317*	*0.0002%*
7440-50-8	*copper*	*0.0002%*
7439-92-1	*lead* *Acute Tox. 3, H301* *Carc. 2, H351; Repr. 1A, H360-H362* *Acute Tox. 4, H332*	*0.0002%*
1317-35-7	*trimanganese tetraoxide*	*0.0002%*

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7440-66-6	zinc Water-react. 2, H261	0.0002%
7440-02-0	nickel Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	0.0002%
7440-38-2	Arsenic Acute Tox. 3, H301; Acute Tox. 3, H331 Carc. 1A, H350	0.0002%
7782-49-2	selenium Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373	0.0002%
7440-22-4	silver	0.0002%
7440-39-3	barium Water-react. 2, H261	0.0002%
7440-28-0	thallium Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	0.0002%
7440-62-2	vanadium	0.0002%
7440-36-0	antimony	0.0002%
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, H335	0.0002%
7732-18-5	Water	97.6968%

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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.
Rub in Ca-gluconate solution or Ca-gluconate gel immediately.
· **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.

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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.

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· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

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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***

· **PAC-1:**		
7697-37-2	Nitric Acid	0.16 ppm
7440-43-9	cadmium (non-pyrophoric)	0.10 mg/m³
7440-47-3	chromium	1.5 mg/m³
7440-48-4	cobalt	0.18 mg/m³
7440-50-8	copper	3 mg/m³
7439-92-1	lead	0.15 mg/m³
1317-35-7	trimanganese tetraoxide	4.2 mg/m³
7440-66-6	zinc	6 mg/m³
7440-02-0	nickel	4.5 mg/m³
7440-38-2	Arsenic	1.5 mg/m³
7782-49-2	selenium	0.6 mg/m³
7440-22-4	silver	0.3 mg/m³
7440-39-3	barium	1.5 mg/m³
7440-28-0	thallium	0.06 mg/m³
7440-62-2	vanadium	3 mg/m³
7440-36-0	antimony	1.5 mg/m³
7440-41-7	beryllium	0.0023 mg/m³

· **PAC-2:**		
7697-37-2	Nitric Acid	24 ppm
7440-43-9	cadmium (non-pyrophoric)	0.76 mg/m³
7440-47-3	chromium	17 mg/m³
7440-48-4	cobalt	2 mg/m³
7440-50-8	copper	33 mg/m³
7439-92-1	lead	120 mg/m³
1317-35-7	trimanganese tetraoxide	6.9 mg/m³

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7440-66-6	zinc	21 mg/m³
7440-02-0	nickel	50 mg/m³
7440-38-2	Arsenic	17 mg/m³
7782-49-2	selenium	6.6 mg/m³
7440-22-4	silver	170 mg/m³
7440-39-3	barium	180 mg/m³
7440-28-0	thallium	3.3 mg/m³
7440-62-2	vanadium	5.8 mg/m³
7440-36-0	antimony	13 mg/m³
7440-41-7	beryllium	0.025 mg/m³

· **PAC-3:**

7697-37-2	Nitric Acid	92 ppm
7440-43-9	cadmium (non-pyrophoric)	4.7 mg/m³
7440-47-3	chromium	99 mg/m³
7440-48-4	cobalt	20 mg/m³
7440-50-8	copper	200 mg/m³
7439-92-1	lead	700 mg/m³
1317-35-7	trimanganese tetraoxide	41 mg/m³
7440-66-6	zinc	120 mg/m³
7440-02-0	nickel	99 mg/m³
7440-38-2	Arsenic	100 mg/m³
7782-49-2	selenium	40 mg/m³
7440-22-4	silver	990 mg/m³
7440-39-3	barium	1,100 mg/m³
7440-28-0	thallium	20 mg/m³
7440-62-2	vanadium	35 mg/m³
7440-36-0	antimony	80 mg/m³
7440-41-7	beryllium	0.1 mg/m³

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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.

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· **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 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

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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.
· **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/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Water:	97.7 %
VOC content:	0.00 %
· **Other information**	No further relevant information available.

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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.

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· **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:** Irritant to skin and mucous membranes.
· **on the eye:** Irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
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
7440-41-7	beryllium	1

· **NTP (National Toxicology Program)**		
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
7440-41-7	beryllium	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
7440-43-9	cadmium (non-pyrophoric)
7440-38-2	Arsenic

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12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.

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· **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.

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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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14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	UN3264
· **UN proper shipping name**	
· **DOT**	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, Hydrogen fluoride)
· **ADR**	3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, Hydrogen fluoride)
· **IMDG, IATA**	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Acid, HYDROGEN FLUORIDE)
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	8 Corrosive substances
· **Label**	8

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· **ADR**

· **Class**	*8 (C1) Corrosive substances*
· **Label**	*8*

· **IMDG, IATA**

· **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 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: E1* *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: E1* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 1000 ml*

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· **UN "Model Regulation":** UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROGEN FLUORIDE), 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		97.6968%
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	2.0%
147-71-7	(-)-tartaric acid	Skin Irrit. 2, H315	0.2%

· **Sara**

· **Section 355 (extremely hazardous substances):**

7697-37-2	Nitric Acid

· **Section 313 (Specific toxic chemical listings):**

7697-37-2	Nitric Acid
7440-43-9	cadmium (non-pyrophoric)
7440-47-3	chromium
7440-48-4	cobalt
7440-50-8	copper
7439-92-1	lead
1317-35-7	trimanganese tetraoxide
7440-66-6	zinc
7440-02-0	nickel
7440-38-2	Arsenic
7782-49-2	selenium
7440-22-4	silver
7440-39-3	barium
7440-28-0	thallium
7440-62-2	vanadium
7440-36-0	antimony
7440-41-7	beryllium

· **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

7697-37-2	Nitric Acid
147-71-7	(-)-tartaric acid
7440-43-9	cadmium (non-pyrophoric)
7440-47-3	chromium
7440-48-4	cobalt
7440-50-8	copper

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7439-92-1	lead
1317-35-7	trimanganese tetraoxide
7440-66-6	zinc
7440-02-0	nickel
7440-38-2	Arsenic
7782-49-2	selenium
7440-22-4	silver
7440-39-3	barium
7440-28-0	thallium
7440-62-2	vanadium
7440-36-0	antimony
7440-41-7	beryllium
7732-18-5	Water

· **Proposition 65**

· **Chemicals known to cause cancer:**	
7440-43-9	cadmium (non-pyrophoric)
7440-48-4	cobalt
7439-92-1	lead
7440-02-0	nickel
7440-38-2	Arsenic
7440-41-7	beryllium

· **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

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**		
7440-43-9	cadmium (non-pyrophoric)	B1
7440-47-3	chromium	D
7440-50-8	copper	D
7439-92-1	lead	B2
1317-35-7	trimanganese tetraoxide	D
7440-66-6	zinc	D, I, II
7440-38-2	Arsenic	A
7782-49-2	selenium	D

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7440-22-4	silver	D
7440-39-3	barium	D, CBD(inh), NL(oral)
7440-41-7	beryllium	B1, K/L(inh), CBD(oral)

· **TLV (Threshold Limit Value established by ACGIH)**

7440-43-9	cadmium (non-pyrophoric)	A2
7440-47-3	chromium	A4
7440-48-4	cobalt	A3
7439-92-1	lead	A3
7440-02-0	nickel	A5
7440-38-2	Arsenic	A1
7440-39-3	barium	A4
7440-41-7	beryllium	A1

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

7440-43-9	cadmium (non-pyrophoric)
7440-02-0	nickel
7440-38-2	Arsenic
7440-41-7	beryllium

· **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.

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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 Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

· **** Data compared to the previous version altered.***