

Printing date 07/28/2021 Review date 07/28/2021

### 1 Identification

- · Product identifier
- · Trade name: SIXTEEN ELEMENT A/S STANDARD
- · Article number N9300227
- · 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 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.

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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 = 3



Fire = 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

· CAS No. Description

7732-18-5 water

- · 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, H314	.0%
Additional	Components		
7732-18-5	Water	94.74	19%
87-69-4	(+)-tartaric acid	0.29	%
	<b>♦</b> Eye Irrit. 2A, H319		
7440-36-0	antimony	0.000	6%
	♦ Acute Tox. 3, H311; Acute Tox. 3, H331		
1317-35-7	trimanganese tetraoxide	0.003	5%
7440-39-3	barium	0.003	5%
	♦ Water-react. 2, H261		
7440-41-7	beryllium	0.003	5%
	Acute Tox. 3, H301; Acute Tox. 2, H330		
	© Carc. 1B, H350; STOT RE 1, H372	2 11225	
	🐧 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE	3, H335	



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7440 47 3	1 .	(Contd. of page
7440-47-3		0.005%
7440-48-4	Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317 Aquatic Chronic 4, H413	0.005%
7440-50-8	copper	0.005%
7440-62-2	vanadium	0.005%
7440-22-4	silver	0.002%
7664-39-3	Hydrofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1A, H314	0.002%
7440-02-0	nickel	0.001%
7440-28-0	thallium  Acute Tox. 2, H300; Acute Tox. 2, H330  STOT RE 2, H373  Aquatic Chronic 4, H413	0.001%
7440-38-2	Arsenic Arsenic Acute Tox. 3, H301; Acute Tox. 3, H331 Carc. 1A, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.001%
7440-43-9	cadmium  Acute Tox. 3, H301; 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	0.001%
7440-66-6	zinc Pyr. Sol. 1, H250; Water-react. 1, H260 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.001%
7439-92-1	lead <b>♦</b> Carc. 2, H351; Repr. 1A, H360	0.00059
7782-49-2	*	0.00059

# 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.

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· 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
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

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.

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

7697-37-2 Nitric Acid	0.16 ppm
87-69-4 (+)-tartaric acid	$1.6 \text{ mg/m}^3$
7440-36-0 antimony	$1.5 \text{ mg/m}^3$
1317-35-7 trimanganese tetraoxide	$4.2 \text{ mg/m}^3$
7440-39-3 barium	$1.5 \text{ mg/m}^3$
7440-41-7 beryllium	0.0023 mg/m
7440-47-3 chromium	$1.5 \text{ mg/m}^3$
7440-48-4 cobalt	$0.18 \text{ mg/m}^3$
7440-50-8 copper	3 mg/m <sup>3</sup>
7440-62-2 vanadium	3 mg/m <sup>3</sup>
7440-22-4 silver	$0.3 \text{ mg/m}^3$
7440-02-0 nickel	$4.5 \text{ mg/m}^3$
7440-28-0 thallium	$0.06 \text{ mg/m}^3$

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		(Contd. of page
7440-38-2	Arsenic	$1.5 \text{ mg/m}^3$
7440-43-9	cadmium	$0.10 \text{ mg/m}^3$
7440-66-6	zinc	6 mg/m <sup>3</sup>
7439-92-1	lead	$0.15 \text{ mg/m}^3$
7782-49-2	selenium	$0.6 \text{ mg/m}^3$
· PAC-2:		0
7697-37-2	Nitric Acid	24 ppm
	(+)-tartaric acid	$\frac{17 \text{ mg/m}^3}{}$
7440-36-0	• •	$13 \text{ mg/m}^3$
	trimanganese tetraoxide	$6.9 \text{ mg/m}^3$
7440-39-3		$\frac{0.5 \text{ mg/m}}{180 \text{ mg/m}^3}$
7440-41-7		$0.025 \text{ mg/m}^{-1}$
7440-47-3	•	$\frac{0.023 \text{ mg/m}^3}{17 \text{ mg/m}^3}$
7440-48-4		$\frac{1}{2} \frac{mg}{m^3}$
7440-50-8		$\frac{2 \text{ mg/m}}{33 \text{ mg/m}^3}$
7440-30-8		5.8 mg/m <sup>3</sup>
7440-02-2		170 mg/m <sup>3</sup>
7440-22-4		
		$50 \text{ mg/m}^3$
7440-28-0		$3.3 \text{ mg/m}^3$
7440-38-2		17 mg/m³
7440-43-9		$0.76 \text{ mg/m}^3$
7440-66-6		21 mg/m³
7439-92-1		120 mg/m³
7782-49-2	selenium	6.6 mg/m³
· PAC-3:		
7697-37-2	Nitric Acid	92 ppm
87-69-4	(+)-tartaric acid	100 mg/m³
7440-36-0	antimony	80 mg/m³
1317-35-7	trimanganese tetraoxide	41 mg/m³
7440-39-3	barium	1,100 mg/m
7440-41-7	beryllium	$0.1 \text{ mg/m}^3$
7440-47-3	chromium	99 mg/m³
7440-48-4	cobalt	20 mg/m³
7440-50-8	copper	200 mg/m³
7440-62-2		35 mg/m <sup>3</sup>
7440-22-4	silver	990 mg/m³
7440-02-0		99 mg/m³
7440-28-0		20 mg/m³
7440-38-2		$100 \text{ mg/m}^3$
7440-43-9		$4.7 \text{ mg/m}^3$
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7440-66-6	zinc	120 mg/m³
7439-92-1	lead	700 mg/m³
7782-49-2	selenium	40 mg/m³

## 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: Keep respiratory protective device available.
- · 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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

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.

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#### 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

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.	
2 2 2	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	

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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 <b>r):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	94.7 %	
VOC content:	0.00 %	
Solids content:	0.3 %	
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.

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(Contd. of page 8) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 7440-41-7 beryllium 7440-47-3 chromium 3 7440-48-4 cobalt 2B 7440-02-0 nickel 2B 7440-38-2 Arsenic 7440-43-9 cadmium 7439-92-1 lead 2B7782-49-2 selenium 3 · NTP (National Toxicology Program) 7440-41-7 beryllium K 7440-48-4 cobalt R 7440-02-0 nickel R K 7440-38-2 Arsenic 7440-43-9 cadmium K 7439-92-1 lead R · OSHA-Ca (Occupational Safety & Health Administration) 7440-38-2 Arsenic 7440-43-9 cadmium

# 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 product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- $\cdot \textit{Other adverse effects} \ \textit{No further relevant information available}.$

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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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11 Tranc	nort in	torma	tion
14 Trans	וווו ווטע	UHHUU	uvuu

· UN-Number · DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name	
$\cdot DOT$	Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid)
·ADR	3264 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 acid)

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



· Class 8 Corrosive substances 
· Label 8

 $\cdot ADR$ 



· Class 8 (C1) Corrosive substances

·Label

· IMDG, IATA



· Class 8 Corrosive substances · Label 8

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Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	: 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:	
$\cdot DOT$	
Quantity limitations	On passenger aircraft/rail: 5 L
<b>2</b>	On cargo aircraft only: 60 L
· ADR	
Excepted quantities (EQ)	Code: E1
2)	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
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
G	(NITRIC ACID), 8, III

· Safety, hea	ulth and environmental regulations/legisl	ation specific for the substance or mixture	
7732-18-5	Water		94.749%
7697-37-2	Nitric Acid	♠ Ox. Liq. 2, H272 ♠ Skin Corr. 1A, H314	5.0%
87-69-4	(+)-tartaric acid	<b>♦</b> Eye Irrit. 2A, H319	0.2%
· Sara		·	
Section 35	5 (extremely hazardous substances):		
7697-37-2	Nitric Acid		
· Section 31	3 (Specific toxic chemical listings):		
7697-37-2	Nitric Acid		
7440-36-0	antimony		



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1317-35-7 trimanganese tetraoxide	
7440-39-3 barium	
7440-41-7 beryllium	
7440-47-3 chromium	
7440-48-4 cobalt	
7440-50-8 copper	
7440-62-2 vanadium	
7440-22-4 silver	
7440-02-0 nickel	
7440-28-0 thallium	
7440-38-2 Arsenic	
7440-43-9 cadmium	
7440-66-6 zinc	
7439-92-1 lead	
7782-49-2 selenium	
TSCA (Toxic Substances Control Act): All ingredients are listed.	
7732-18-5   Water	ACTI
7697-37-2 Nitric Acid	ACTI
87-69-4 (+)-tartaric acid	ACTI
7440-36-0 antimony	ACTI
1317-35-7 trimanganese tetraoxide	ACTI
7440-39-3 barium	ACTI
7440-41-7 beryllium	ACTI
7440-47-3 chromium	ACTI
7440-48-4 cobalt	ACTI
7440-50-8 copper	ACTI
7440-62-2 vanadium	ACTI
7440-22-4 silver	ACTI
7440-02-0 nickel	ACTI
7440-28-0 thallium	ACTI
7440-38-2 Arsenic	ACTI
7440-43-9 cadmium	ACTI
7440-66-6 zinc	ACTI
7439-92-1 lead	ACTI
7782-49-2 selenium	ACTI
Hazardous Air Pollutants	
1317-35-7 trimanganese tetraoxide	
7440-48-4 cobalt	
7439-92-1 lead	



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· Propositio	n 65	(Contd. of page
	known to cause cancer:	
7440-41-7	beryllium	
7440-48-4		
7440-02-0	nickel	
7440-38-2	Arsenic	
7440-43-9	cadmium	
7439-92-1	lead	
· Chemicals	known to cause reproductive toxicity for females:	
7439-92-1		
· Chemicals	known to cause reproductive toxicity for males:	
7440-43-9	cadmium	
7439-92-1	lead	
· Chemicals	known to cause developmental toxicity:	
7440-43-9	cadmium	
7439-92-1	lead	
· Canceroge	enity categories	
· EPA (Env	ironmental Protection Agency)	
1317-35-7	trimanganese tetraoxide	D
7440-39-3	barium	D, CBD(inh), NL(oral)
7440-41-7	beryllium	B1, K/L(inh), CBD(ora
7440-47-3	chromium	D
7440-50-8	copper	D
7440-22-4	silver	D
7440-38-2	Arsenic	A
7440-43-9	cadmium	<i>B1</i>
7440-66-6	zinc	D, I, II
7439-92-1	lead	B2
7782-49-2	selenium	D
· TLV (Thre	eshold Limit Value established by ACGIH)	
7440-39-3	barium	A
7440-41-7	beryllium	A
7440-47-3	chromium	A
	cobalt	A
7440-48-4	nickel	A
7440-48-4 7440-02-0		
	Arsenic	A
7440-02-0		A A



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· NIOSH-Ca (National Institute for Occupational Safety and Health)		
7440-41-7	beryllium	
7440-02-0	nickel	
7440-38-2	Arsenic	
7440-43-9	cadmium	

#### · 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 3 (Self-assessment): extremely 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

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

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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.

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