

Printing date 08/28/2018 Review date 08/28/2018

### 1 Identification

- · Product identifier
- · Trade name: FIFTEEN ELEMENT A/S STD CRDL
- · Article number N9300225
- · 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.

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P501

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

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



Health = 3 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 30 Fire = 0

REACTIVITY 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

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, H3	5.0%
· Additional	Components	
133-37-9	(+-)-tartaric acid	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%
7440-47-3	chromium	0.01%
7440-48-4	cobalt <b>♦</b> Resp. Sens. 1, H334; Carc. 2, H351 <b>↑</b> Skin Sens. 1, H317	0.01%
7440-50-8	copper	0.01%
7439-92-1	lead	0.01%
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1217 25 7		ntd. of pa
131/-33-/	trimanganese tetraoxide	0.01
7440-02-0	nickel	0.01
	<b>♦</b> Carc. 2, H351; STOT RE 1, H372	
	Skin Sens. 1, H317	
7782-49-2	selenium	0.01
	♠ Acute Tox. 3, H301; Acute Tox. 3, H331	
	<b>&amp;</b> STOT RE 2, H373	
7440-22-4	silver	0.01
7440-28-0	thallium	0.0
	♠ Acute Tox. 2, H300; Acute Tox. 2, H330	•
	<b>♦</b> STOT RE 2, H373	
7440-62-2	vanadium	0.0
7440-36-0	antimony	0.01
7440-66-6	zinc	0.0
	♦ Water-react. 2, H261	
7440-41-7	beryllium	0.0
	♦ Acute Tox. 3, H301; Acute Tox. 2, H330	
	<b>♦</b> 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)	0.0
	♠ Acute Tox. 2, H330	1
	<b>№</b> Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
7440-38-2	Arsenic	0.0
	♠ Acute Tox. 3, H301; Acute Tox. 3, H331	
	& Carc. 1A, H350	
7732-18-5	Water	94.5

# 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.
- · 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.

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- · 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.

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

<b>PAC-1:</b> 7697-37-2 Nitric Acid	0.16 ppm
7440-47-3 chromium	1.5 mg/m <sup>3</sup>
	The state of the s
7440-48-4 cobalt	$0.18 \text{ mg/m}^3$
7440-50-8 copper	$3 \text{ mg/m}^3$
7439-92-1 lead	$0.15 \text{ mg/m}^3$
1317-35-7 trimanganese tetraoxide	$4.2 \text{ mg/m}^3$
7440-02-0 nickel	$4.5 mg/m^3$
7782-49-2 selenium	$0.6 \text{ mg/m}^3$
7440-22-4 silver	$0.3 \text{ mg/m}^3$
7440-28-0 thallium	$0.06  mg/m^3$
7440-62-2 vanadium	3 mg/m <sup>3</sup>
7440-36-0 antimony	$1.5 \text{ mg/m}^3$
7440-66-6 zinc	6 mg/m <sup>3</sup>
7440-41-7 beryllium	0.0023 mg/r
7440-43-9 cadmium (non-pyrophoric)	$0.10 \text{ mg/m}^3$
7440-38-2 Arsenic	$1.5 \text{ mg/m}^{3}$
PAC-2:	
7697-37-2 Nitric Acid	24 ppm
7440-47-3 chromium	$17 \text{ mg/m}^3$
7440-48-4 cobalt	2 mg/m <sup>3</sup>
7440-50-8 copper	$33 \text{ mg/m}^3$



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7439-92-1 lead	(Contd. of page
	$120 \text{ mg/m}^3$
1317-35-7 trimanganese tetraoxide	$6.9 \text{ mg/m}^3$
7440-02-0 nickel	$50 \text{ mg/m}^3$
7782-49-2 selenium	$6.6 \text{ mg/m}^3$
7440-22-4 silver	$170 \text{ mg/m}^3$
7440-28-0   thallium	3.3 mg/m³
7440-62-2 vanadium	5.8 mg/m <sup>3</sup>
7440-36-0 antimony	13 mg/m³
7440-66-6 zinc	21 mg/m³
7440-41-7 beryllium	0.025 mg/m
7440-43-9 cadmium (non-pyrophoric)	$0.76 \text{ mg/m}^3$
7440-38-2 Arsenic	17 mg/m³
PAC-3:	
7697-37-2 Nitric Acid	92 ppm
7440-47-3 chromium	$99 \text{ mg/m}^3$
7440-48-4 cobalt	$20 \text{ mg/m}^3$
7440-50-8 copper	200 mg/m
7439-92-1 lead	700 mg/m
1317-35-7 trimanganese tetraoxide	$41 \text{ mg/m}^3$
7440-02-0 nickel	99 mg/m³
7782-49-2 selenium	$40 \text{ mg/m}^3$
7440-22-4 silver	990 mg/m
7440-28-0 thallium	$20 \text{ mg/m}^3$
7440-62-2 vanadium	35 mg/m <sup>3</sup>
7440-36-0 antimony	$80 \text{ mg/m}^3$
7440-66-6 zinc	120 mg/m <sup>-</sup>
7440-41-7 beryllium	$0.1 \text{ mg/m}^3$
7440-43-9 cadmium (non-pyrophoric)	$4.7 \text{ mg/m}^3$
7440-38-2 Arsenic	100 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.

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· 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

- · 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.

Long-term value: 5.2 mg/m³, 2 ppm

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

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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Information on basic physical and c	rhemical properties
General Information	
Appearance:	T
Form:	Liquid
Color:	Transparent
Odor: Odor threshold:	Characteristic Not determined.
-	
pH-value:	Not determined.
Change in condition	(10.5.00 (505.1.00))
Melting point/Melting range:	419.5 °C (787.1 °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	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Water:	94.6 %
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.

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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.

# 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

7440-47-3	chromium	3
7440-48-4	cobalt	21
7439-92-1	lead	21
7440-02-0	nickel	21
7782-49-2	selenium	3
7440-41-7	beryllium	1
7440-43-9	cadmium (non-pyrophoric)	1
7440-38-2	Arsenic	1
NTP (Nati	ional Toxicology Program)	,
7440-48-4	cobalt	i
7439-92-1	lead	i
7440-02-0	nickel	i
7440-41-7	beryllium	i
7440-43-9	cadmium (non-pyrophoric)	i
7440-38-2	Arsenic	į
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.
- · 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name	
$\cdot DOT$	Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid, Hydrogo
	fluoride)
· ADR	3264 Corrosive liquid, acidic, inorganic, n.o.s. (nitric aci
	Hydrogen fluoride)
	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
	(NITRIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric aci
,	HYDROGEN FLUORIDE)

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(Contd. of page 9) · Transport hazard class(es)  $\cdot DOT$ · Class 8 Corrosive substances ·Label  $\cdot ADR$ · Class 8 (C1) Corrosive substances ·Label · IMDG, IATA · Class 8 Corrosive substances ·Label · Packing group · DOT, ADR, IMDG, IATA III· Environmental hazards: · Marine pollutant: Warning: Corrosive substances · Special precautions for user Danger code (Kemler): · EMS Number: F-A,S-B· Segregation groups Acids· Stowage Category · 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: · Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L  $\cdot ADR$ · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml (Contd. on page 11)

US/



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· IMDG
· Limited quantities (LQ)
· 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, HYDROGEN FLUORIDE), 8, III

• •	alth and environmental regulations/legislation	specific for the substance or mixture	
7732-18-5	Water		94.5.
7697-37-2	Nitric Acid	© Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.09
133-37-9	(+-)-tartaric acid		0.29
· Sara		<u>'</u>	
· Section 35.	5 (extremely hazardous substances):		
7697-37-2	Nitric Acid		
· Section 31.	3 (Specific toxic chemical listings):		
7697-37-2	Nitric Acid		
7440-47-3	chromium		
7440-48-4	cobalt		
7440-50-8	copper		
7439-92-1	lead		
1317-35-7	trimanganese tetraoxide		
7440-02-0	nickel		
7782-49-2	selenium		
7440-22-4	silver		
7440-28-0	thallium		
7440-62-2	vanadium		
7440-36-0	antimony		
7440-66-6	zinc		
7440-41-7	beryllium		
7440-43-9	cadmium (non-pyrophoric)		
7440-38-2	Arsenic		
	xic Substances Control Act): ents are listed.		
7697-37-2	Nitric Acid		
133-37-9	(+-)-tartaric acid		



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		(Contd. of pa
7440-48-4		
7440-50-8		
7439-92-1		
	trimanganese tetraoxide	
7440-02-0		
7782-49-2		
7440-22-4	silver	
7440-28-0	thallium	
7440-62-2	vanadium	
7440-36-0	antimony	
7440-66-6	zinc	
7440-41-7	•	
7440-43-9	cadmium (non-pyrophoric)	
7440-38-2	Arsenic	
7732-18-5	Water	
Proposition	65	
Chemicals	known to cause cancer:	
7440-48-4	cobalt	
7439-92-1	lead	
7440-02-0		
7440-41-7	·	
	cadmium (non-pyrophoric)	
7440-38-2	Arsenic	
Chemicals	known to cause reproductive toxicity for females:	
7439-92-1	lead	
Chemicals	known to cause reproductive toxicity for males:	
7439-92-1	lead	
7440-43-9	cadmium (non-pyrophoric)	
Chemicals	known to cause developmental toxicity:	
7439-92-1	lead	
7440-43-9	cadmium (non-pyrophoric)	
Canceroge	nity categories	
	conmental Protection Agency)	
7440-47-3	chromium	D
7440-50-8	copper	D
7439-92-1		B2
1317-35-7	trimanganese tetraoxide	D
7782-49-2	selenium	D
7440-22-4	silvan	D



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		(Contd. of page 12)
7440-66-6	zinc	D, I, II
7440-41-7	beryllium	B1, K/L(inh), CBD(oral)
7440-43-9	cadmium (non-pyrophoric)	BI
7440-38-2	Arsenic	A
· TLV (Thre	shold Limit Value established by ACGIH)	
7440-47-3	chromium	A4
7440-48-4	cobalt	A3
7439-92-1	lead	A3
7440-02-0	nickel	A5
7440-41-7	beryllium	A1
7440-43-9	cadmium (non-pyrophoric)	A2
7440-38-2	Arsenic	A1
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
7440-02-0	nickel	
7440-41-7	beryllium	
7440-43-9	cadmium (non-pyrophoric)	
7440-38-2	Arsenic	

### · 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.

· 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 Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

\* Data compared to the previous version altered.