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1 Identification

· Product identifier

- · Trade name: SIX ELEMENT A/S STD AL/CA/CR/NI/K/NA
- Article number N9300203
- · Application of the substance / the mixture Laboratory chemicals
- \cdot 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

Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eve 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. P280 Wear protective gloves/protective clothing/eye protection/face protection. 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. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 0Reactivity = 0

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HEALTH FIRE REACTIVITY	$\begin{array}{c} 3 \\ 0 \\ Fire = 0 \\ \hline \mathbf{Y} \\ 0 \end{array} Reactivity = 0 \end{array}$		
formaldehy	uct does not contain any organic halogen compounds (ydes. PBT and vPvB assessment applicable.	(AOX), nitrates, heavy metal c	ompounds o
3 Composi	ition/information on ingredients		
• CAS No. I 7732-18-5 • Identificat	Water		
7732-18-5 · Identificat · EC numbe · Chemical · Descriptio	Water tion number(s) er: 231-791-2 characterization: Mixtures n: Mixture of the substances listed below with nonhazardo	ous additions.	
7732-18-5 · Identificat · EC numbe · Chemical · Descriptio · Hazardous	Water tion number(s) er: 231-791-2 characterization: Mixtures	ous additions. Ox. Liq. 2, H2	
7732-18-5 · Identificat · EC numbe · Chemical · Descriptio · Hazardous 7697-37-2	Water tion number(s) er: 231-791-2 characterization: Mixtures n: Mixture of the substances listed below with nonhazardo s components:	🔕 Ox. Liq. 2, H2	72 H314 ≤5%
7732-18-5 · Identificat · EC numbe · Chemical · Description · Hazardous 7697-37-2 · Additional 7440-70-2	Water tion number(s) er: 231-791-2 characterization: Mixtures n: Mixture of the substances listed below with nonhazardo s components: Nitric Acid Components calcium	🔕 Ox. Liq. 2, H2	
7732-18-5 · Identificat · EC numbe · Chemical · Descriptio · Hazardous 7697-37-2 · Additional 7440-70-2 7440-09-7	Water tion number(s) er: 231-791-2 characterization: Mixtures n: Mixture of the substances listed below with nonhazardo s components: Nitric Acid I Components calcium potassium & Wate Skin	♦ Ox. Liq. 2, H2 ♦ Skin Corr. 1A,	H314
7732-18-5 · Identificat · EC numbe · Chemical · Description · Hazardous 7697-37-2 · Additional 7440-70-2	Water tion number(s) er: 231-791-2 characterization: Mixtures n: Mixture of the substances listed below with nonhazardo s components: Nitric Acid I Components calcium \bigotimes Wate potassium \bigotimes Wate sodium	Ox. Liq. 2, H2 Skin Corr. 1A, er-react. 2, H261 er-react. 1, H260	H314
7732-18-5 · Identificat · EC numbe · Chemical · Descriptio · Hazardous 7697-37-2 · Additional 7440-70-2 7440-09-7	Water tion number(s) er: 231-791-2 characterization: Mixtures n: Mixture of the substances listed below with nonhazardo s components: Nitric Acid Components calcium potassium sodium isodium inickel	© Ox. Liq. 2, H2 Skin Corr. 1A, er-react. 2, H261 er-react. 1, H260 COrr. 1B, H314 er-react. 1, H260	H314 0.1-<1% < 0.01%
7732-18-5 · Identificat · EC numbe · Chemical · Descriptio · Hazardoux 7697-37-2 · Additional 7440-70-2 7440-09-7 7440-23-5 7440-02-0	Water tion number(s) er: 231-791-2 characterization: Mixtures n: Mixture of the substances listed below with nonhazardo s components: Nitric Acid Components calcium potassium sodium isodium inickel	© Ox. Liq. 2, H2 Skin Corr. 1A, er-react. 2, H261 er-react. 1, H260 c Corr. 1B, H314 er-react. 1, H260 c Corr. 1B, H314 c. 2, H351; STOT RE 1, H372	H314 0.1-<1%
7732-18-5 · Identificat · EC numbe · Chemical · Descriptio · Hazardoux 7697-37-2 · Additional 7440-70-2 7440-23-5 7440-02-0 7440-47-3	Water tion number(s) er: 231-791-2 characterization: Mixtures n: Mixture of the substances listed below with nonhazardo s components: Nitric Acid I Components calcium of Wate potassium sodium inickel	© Ox. Liq. 2, H2 Skin Corr. 1A, er-react. 2, H261 er-react. 1, H260 c Corr. 1B, H314 er-react. 1, H260 c Corr. 1B, H314 c. 2, H351; STOT RE 1, H372	H314 0.1-<1%

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

6 Accidental release measures

	ctive equipment. Keep unprotected persons away. ntal precautions:	
	ective authorities in case of seepage into water course or sewage system.	
	plenty of water.	
	nd material for containment and cleaning up:	
	h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	lizing agent.	
	ntaminated material as waste according to item 13.	
	quate ventilation. to other sections	
	7 for information on safe handling.	
	8 for information on personal protection equipment.	
	13 for disposal information.	
	Action Criteria for Chemicals	
PAC-1:		
7697-37-2	Nitric Acid	0.16 ppm
7440-09-7	potassium	2.3 mg/m
7440-23-5	sodium	13 mg/m3
7440-02-0	nickel	4.5 mg/m
7440-47-3	chromium	1.5 mg/m
PAC-2:		
7697-37-2	Nitric Acid	24 ppm
7440-09-7	potassium	25 mg/m3
7440-23-5	sodium	140 mg/m
7440-02-0	nickel	50 mg/m3
7440-47-3	chromium	17 mg/m3
PAC-3:		
7697-37-2	Nitric Acid	92 ppm
7440-09-7	potassium	150 mg/m
7440-23-5	sodium	870 mg/m
7440-02-0	nickel	99 mg/m3
7440-47-3	abuomium	99 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.
- · 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: 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.

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• Eye protection:

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Tightly sealed goggles or safety glasses

9 Physical and chemical properties

Odor threshold:Not depH-value:Not depH-value:Not deChange in condition Melting point/Melting range:0 °C (100 °CBoiling point/Boiling range:100 °CFlash point:Not apFlammability (solid, gaseous):Not apIgnition temperature:Not deDecomposition temperature:Not deDanger of explosion:ProducExplosion limits: Lower: Upper:Not deVapor pressure at 20 °C (68 °F):1 g/cmRelative density Vapor density Evaporation rateNot deSolubility in / Miscibility with Water:Fully nPartition coefficient (n-octanol/water):Not de	teristic ermined. ermined.
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Vapor densityNot deEvaporation rateNot deSolubility in / Miscibility withFully nWater:Fully nPartition coefficient (n-octanol/water): Not de	(8.345 lbs/gal)
Evaporation rateNot deSolubility in / Miscibility with Water:Fully nPartition coefficient (n-octanol/water): Not de	ermined.
Solubility in / Miscibility with Water: Fully r Partition coefficient (n-octanol/water): Not de	ermined.
Water:Fully nPartition coefficient (n-octanol/water): Not de	ermined.
Partition coefficient (n-octanol/water): Not de	
	iscible.
T7' '	ermined.
Viscosity:	
	ermined.
Kinematic: Not de	ermined.
Solvent content:	
Organic solvents: 0.0 %	
Water: 94.9 %	
Solids content: 0.1 %	



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• 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.
- \cdot 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 (Int	ternational Agency for Research on Cancer)	
7440-02-0) nickel	2B
7440-47-3	3 chromium	3
· NTP (Nat	ional Toxicology Program)	
7440-02-0) nickel	R
· OSHA-Ca	a (Occupational Safety & Health Administration)	
None of th	ne ingredients is listed.	

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.

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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 DOT, ADR IMDG, IATA	Corrosive liquid, acidic, inorganic, n.o.s. (dušična kiselina) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (dušiči kiselina)
Transport hazard class(es)	
DOT	
CORROSIVE V	
Class	8 Corrosive substances
Label	8
ADR	
at at a second s	
Class	8 (C1) Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8

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Packing group	
DOT, ADR, ÎMDG, 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: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (\widetilde{EQ})	Code: El
	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.
	(DUŠIčNA KISELINA), 8, III

15 Regulatory information

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7732-18-5 Water	75-1009
7697-37-2 Nitric Acid	(♦) Ox. Liq. 2, H272 (♦) Skin Corr. 1A, H314
7440-70-2 calcium	
Sara	· · ·
Section 355 (extremely hazardous substan	ces):
7697-37-2 Nitric Acid	
Section 313 (Specific toxic chemical listing	gs):
7697-37-2 Nitric Acid	
7440-02-0 nickel	
7440-47-3 chromium	
7429-90-5 aluminium TSCA (Toxic Substances Control Act):	



P280

P310 P405

P501

P304+P340

shower.

Store locked up.

regulations.

and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

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7697-37-2 Nitric Acid	
7440-70-2 calcium	
7440-09-7 potassium	
7440-23-5 sodium	
7440-02-0 nickel	
7440-47-3 chromium	
7429-90-5 aluminium	
7732-18-5 Water	
Proposition 65	
Chemicals known to cause cancer:	
7440-02-0 nickel	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Cancerogenity categories EPA (Environmental Protection Agency)	
7440-47-3 chromium	
TLV (Threshold Limit Value established by ACGIH)	
7440-02-0 nickel	A
7440-47-3 chromium	A
7429-90-5 aluminium	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
7440-02-0 nickel	
GHS label elements The product is classified and labeled according to the Hazard pictograms GHS05 Signal word Danger	e Globally Harmonized System (GHS)
Hazard-determining components of labeling: Nitric Acid Hazard statements	

Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

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

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

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· 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) 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.