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1 Identification

· Product identifier

- · Trade name: NexION Setup Solution
- Article number N8145051
- · 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 **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 P280 Wear protective gloves / eye protection / face protection. P264 Wash thoroughly after handling. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. *P337+P313* If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. P302+P352 *P362*+*P364* Take off contaminated clothing and wash it before reuse. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 0Reactivity = 0(Contd. on page 2)

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	exION Setup Solution	
		(Contd. of page
• <i>HMIS-rati</i> HEALTH FIRE REACTIVITY	ngs (scale 0 - 4) Health = 1 Fire = 0 Reactivity = 0	
formaldehy	ct does not contain any organic halogen compounds (AOX), nitrates, heavy metal o des. PBT and vPvB assessment upplicable.	compounds
3 Composi	tion/information on ingredients	
· Chemical o	characterization: Mixtures a: Mixture of the substances listed below with nonhazardous additions.	
· Hazardous	components:	
7697-37-2	Nitric Acid Ox. Liq. 3, H2	272 1.09 , H314
·Additional	Components	I
7439-93-2	lithium Water-react. 1, H260 Skin Corr. 1B, H314	0.00019
7440-41-7		0.00019
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7439-95-4		0.00019
7439-95-4 7439-89-6	 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 magnesium Pyr. Sol. 1, H250; Water-react. 1, H260 	
	 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 magnesium Pyr. Sol. 1, H250; Water-react. 1, H260 iron 	0.00019
7439-89-6	 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 magnesium Pyr. Sol. 1, H250; Water-react. 1, H260 iron Indium 	0.00019 0.00019 0.00019 0.00019
7439-89-6 7440-74-6	 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 magnesium Pyr. Sol. 1, H250; Water-react. 1, H260 iron Indium cerium Water-react. 2, H261 	 0.00019 0.00019 0.00019
7439-89-6 7440-74-6 7440-45-1	 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 magnesium Pyr. Sol. 1, H250; Water-react. 1, H260 iron Indium cerium Water-react. 2, H261 lead Acute Tox. 3, H301 Carc. 2, H351; Repr. 1A, H360; STOT RE 2, H373 Acute Tox. 4, H332 	 0.00019 0.00019

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.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- · 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.

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 Not required.
- 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).

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
7439-93-2 lithium	3.3 mg/m3
7440-41-7 beryllium	0.0023 mg/m.
7439-95-4 magnesium	18 mg/m3
7439-89-6 iron	3.2 mg/m3
7440-74-6 Indium	0.3 mg/m3
7440-45-1 cerium	30 mg/m3
7439-92-1 lead	0.15 mg/m3
7440-61-1 uranium	0.6 mg/m3
PAC-2:	· · · ·
7697-37-2 Nitric Acid	24 ppm
7439-93-2 lithium	36 mg/m3
7440-41-7 beryllium	0.025 mg/m.
7439-95-4 magnesium	200 mg/m3
7439-89-6 iron	35 mg/m3
7440-74-6 Indium	3.3 mg/m3
7440-45-1 cerium	330 mg/m3
7439-92-1 lead	120 mg/m3
7440-61-1 uranium	5 mg/m3
PAC-3:	
7697-37-2 Nitric Acid	92 ppm

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		(Contd. of page 3)
7439-93-2	lithium	220 mg/m3
7440-41-7	beryllium	0.1 mg/m3
7439-95-4	magnesium	1,200 mg/m3
7439-89-6	iron	150 mg/m3
7440-74-6	Indium	20 mg/m3
7440-45-1	cerium	2,000 mg/m3
7439-92-1	lead	700 mg/m3
7440-61-1	uranium	30 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: 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 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. (Contd. on page 5)



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- 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

9 Physical and chemical properties

Appearance:		
Form:	Liquid	
Color:	Not determined.	
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.	
Ignition temperature:		
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 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	pr): Not determined	

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· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	99.0 %	
• 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: 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)	
7440-41-7 beryllium	1
7439-92-1 lead	2B
· NTP (National Toxicology Program)	
7440-41-7 beryllium	K
7439-92-1 lead	R
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the 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.

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· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · 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.

· UN-Number	
DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name	
$\cdot DOT, ADR$	Corrosive liquid, acidic, inorganic, n.o.s. (dušična kiselina)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (duši
	kiselina)
• Transport hazard class(es)	
·DOT	
CORROSIVE 0	
Class	8 Corrosive substances
Label	8
ADR	
· Class	8 (C1) Corrosive substances
· Label	8
· IMDG, IATA	
· Class	8 Corrosive substances

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	(Contd. of pag
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 . MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
2	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 $(\widetilde{E}Q)$	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.
3	(DUŠIčNA KISELINA), 8, III

40

15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture 7732-18-5 Water 7697-37-2 Nitric Acid Ø Ox. Liq. 3, H272 Skin Corr. 1A, H314 7440-41-7 beryllium

14.01	
	 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
	🗞 Carc. 1B, H350; STOT RE 1, H372
	🔶 Acute Tox. 3, H301; Acute Tox. 2, H330

· Sara

• Section 355 (extremely hazardous substances):

7697-37-2 Nitric Acid

· Section 313 (Specific toxic chemical listings):

7697-37-2 Nitric Acid

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98.9992%

1.0%

0.0001%

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		(Cor	ntd. of page
7440-41-7	beryllium	(COI	nu. or page
7439-92-1	-		
	r ic Substances Control Act): ents are listed.		
0	Nitric Acid		
7439-93-2			
7440-41-7			
	magnesium		
7439-89-6	6		
7440-74-6	Indium		
7440-45-1	cerium		
7439-92-1	lead		
7440-61-1	uranium		
7732-18-5	Water		
· Proposition	1 65		
· Chemicals	known to cause cancer:		
7440-41-7	beryllium		
7439-92-1	lead		
· Chemicals	known to cause reproductive toxicity for females:		
7439-92-1			
· Chemicals	known to cause reproductive toxicity for males:		
7439-92-1	lead		
· Chemicals	known to cause developmental toxicity:		
7439-92-1			
· Canceroge	nity categories		
-	ronmental Protection Agency)		
7440-41-7		B1, K/L(inh), C	CBD(ora
7439-92-1	•	B2	(===
	shold Limit Value established by ACGIH)		
7440-41-7			A
7439-92-1	•		A
7440-61-1			A
	(National Institute for Occupational Safety and Health)		
7440-41-7			
7440-61-1	uranium		
	elements The product is classified and labeled according to the Glo	bally Harmonized System	m (GHS)
	tograms GHS07		
· Signal wor · Hazard sta			
	es skin irritation.		
	es serious eye irritation.		
• Precaution P280	ary statements Wear protective gloves / ave protection / face protection		
P280 P264	Wear protective gloves / eye protection / face protection. Wash thoroughly after handling.		
		(Conto	d. on page

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P305+P351+P33	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
D117 D111	

- *P337+P313* If eye irritation persists: Get medical advice/attention.
- *P302+P352 IF ON SKIN: Wash with plenty of water.*
- *P362+P364* Take off contaminated clothing and wash it before reuse.

· 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 2 (Self-assessment): 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. 3: Oxidizing liquids – Category 3 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.