



Printing date 08/13/2015 Review date 08/13/2015

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)

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Irritation - Category 2 H315 Causes skin irritation.

Eye Irritation - Category 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.

P280 Wear 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.

P302+P352 If on skin: Wash with plenty of water.

- · Hazard description:
- · WHMIS-symbols:

D2B - Toxic material causing other toxic effects

E - Corrosive material



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ISO 11014:2009 and GHS 2007

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· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 1 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· 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: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Hazardous	components:	
7697-37-2	Nitric Acid	≤1%
	Components	
7439-93-2	lithium	<0.1%
7440-41-7	·	<0.1%
7439-95-4	magnesium	<0.1%
7439-89-6	iron	<0.1%
7440-74-6	Indium	<0.1%
7440-45-1	cerium	<0.1%
7439-92-1		<0.1%
7440-61-1	uranium	<0.1%
7732-18-5	Water	60-100%

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.

- · 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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).

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.

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: 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

EL Short-term value: 4 ppm

Long-term value: 2 ppm

EV Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm

· Additional information: The lists that were valid during the creation were used as basis.

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- · 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:

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.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

Color: Not determined.
Odor: Characteristic
Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: 0 °C Boiling point/Boiling range: 100 °C

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

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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:	23 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· 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

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•	Carcinogenic	categories
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· Carcinoge	nic cutegories	
· IARC (International Agency for Research on Cancer)		
7440-41-7	beryllium	1
7439-92-1	lead	2 <i>B</i>
· NTP (National Toxicology Program)		
7440-41-7	beryllium	K
7439-92-1	lead	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of th	e ingredients is listed.	

12 Ecological information

- · 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.

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.

14 Transport information

· UN-Numbe	2r
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· DOT, TDG, IMDG, IATA UN3264

· UN proper shipping name

· DOT, TDG Corrosive liquid, acidic, inorganic, n.o.s.

· IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

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· Transport hazard class(es)

 $\cdot DOT$



· Class 8 Corrosive substances

· Label

· TDG (Transport dangerous goods):



· Class 8 (C1) Corrosive substances

· Label

· IMDG, IATA



· Class 8 Corrosive substances

· Label 8

· Packing group

· DOT, TDG, 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

· 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 On cargo aircraft only: 60 L

 \cdot TDG

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

 \cdot IMDG

Limited quantities (LQ)
 Excepted quantities (EQ)
 5L
 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., 8,

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		A V A 7171	ormation
	S	J,	, , , , , , , , , , , , , , , , , , , ,

· Safety, hea	lth and environmental regulations/legislation specific for the substance or mixture	
7732-18-5	Water	60-100%
7697-37-2	Nitric Acid	≤1%
7440-41-7	heryllium	<0.1%

- · Sara
- · Section 355 (extremely hazardous substances):
- 7697-37-2 Nitric Acid
- · Section 313 (Specific toxic chemical listings):
 - 7697-37-2 Nitric Acid
- 7440-41-7 beryllium
- 7439-92-1 lead
- · TSCA (Toxic Substances Control Act):

All ingredients are listed.

	Nitric Acid
7439-93-2	
7440-41-7	· ·
	magnesium
7439-89-6	
7440-74-6	
7440-45-1	
7439-92-1	
7440-61-1	
7732-18-5	Water

· Proposition 65

· Chemical	known	to cause	cancer.
· Chemicai	N MILUIVIL	w cause	cuncer.

7440-41-7 beryllium

7439-92-1 lead

· Chemicals known to cause reproductive toxicity for females:

7439-92-1 lead

· Chemicals known to cause reproductive toxicity for males:

7439-92-1 lead

· Chemicals known to cause developmental toxicity:

7439-92-1 lead

· Cancerogenity categories

· EPA (Envi	ronmental Protection Agency)	
7440-41-7	beryllium	B1, K/L(inh), CBD(oral)
7439-92-1	lead	B2

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TLV (Thre	shold Limit Value established by ACGIH)	
7440-41-7	beryllium	A
7439-92-1	lead	A
7440-61-1	uranium	A
NIOSH-C	a (National Institute for Occupational Safety and Health)	
7440-41-7	beryllium	
7440-61-1	uranium	
Canadian	substance listings:	
Canadian	Domestic Substances List (DSL)	
7439-93-2	lithium	
7440-41-7	beryllium	
7439-95-4	magnesium	
7439-89-6	iron	
7440-74-6	Indium	
7440-45-1	cerium	
7439-92-1	lead	
7440-61-1	uranium	
7732-18-5	Water	
Canadian	Ingredient Disclosure list (limit 0.1%)	

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

- · 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.

P280 Wear 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.

P302+P352 If on skin: Wash with plenty of water.

· 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.

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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.

· Contact:

With in the USA: 1-(800)-762-4000 Out side the USA: 1-(203)-712-8488

- · Date of preparation / last revision 08/13/2015 / -
- · Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

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)

WHMIS: Workplace Hazardous Materials Information System (Canada)

PBT: Persistent, Bioaccumulative and Toxic

 $vPvB:\ very\ Persistent\ and\ very\ Bioaccumulative$

Skin Irritation - Category 2: Skin corrosion/irritation, Hazard Category 2

Eye Irritation - Category 2A: Serious eye damage/eye irritation, Hazard Category 2A

 \cdot * Data compared to the previous version altered.

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