

Printing data 00/06/2018

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1 Identification · Product identifier
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· Product identifier
• Trade name: <u>NexION Rinse Solution</u>
• Article number N8145050
• Application of the substance / the mixture Laboratory chemicals
• Details of the supplier of the safety data sheet • Manufacturer/Supplier:
Manajaciarer/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 $CHEMTREC (form particular US) + 1.702.527.2887 (coll coll coll coll)$
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
$\wedge$
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 P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see on this label).
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.
· Classification system: · NFPA ratings (scale 0 - 4)
$\begin{array}{c} Health = 2\\ Fin = 0 \end{array}$
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(Contd. of page 1) · HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE 0 Fire = 0**REACTIVITY O** Reactivity = 0· Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehvdes. · 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
 Ox. Liq. 2, H272
 1.0%

 • Additional Components
 Skin Corr. 1A, H314
 99.0%

### 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.*

## 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.

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(Contd. of page 2) • 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 · PAC-1: 7697-37-2 Nitric Acid 0.16 ppm · PAC-2: 7697-37-2 Nitric Acid 24 ppm · PAC-3: 7697-37-2 Nitric Acid 92 ppm

#### 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/m<sup>3</sup>, 2 ppm
- REL Short-term value: 10 mg/m<sup>3</sup>, 4 ppm

Long-term value: 5 mg/m<sup>3</sup>, 2 ppm

*TLV* Short-term value: 10 mg/m<sup>3</sup>, 4 ppm Long-term value: 5.2 mg/m<sup>3</sup>, 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.

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Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. • **Breathing equipment:** Not required.

Protection of hands:

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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

## 9 Physical and chemical properties

• Information on basic phy • General Information	sical and chemical properties
· Appearance:	
Form:	Liquid
Color:	According to product specification

r orm:	Liquid	
Color:	According to product specification	
· 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.	
Explosion limits:		
Lower:	Not determined.	
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Upper:	Not determined.	
• Vapor pressure at 20 •C (68 •F):	23 hPa (17.3 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	e <b>r):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	99.0 %	
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.
- · 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.
- $\cdot$  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)
- None of the ingredients is listed.

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#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · 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.
- 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	
$\cdot DOT$	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
·ADR	3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Acid



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• Transport hazard class(es)		
·DOT		
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the second se		
CORROSIVE		
$\checkmark$		
· Class	8 Corrosive substances	
·Label	8	
ADR		
$\wedge$		
all		
×		
· Class	8 (C1) Corrosive substances	
·Label	8	
· IMDG, IATA		
$\wedge$		
a		
~		
· Class	8 Corrosive substances	
·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 SW2 Closer of living sugarans	
Stowage Code	SW2 Clear of living quarters.	
• Transport in bulk according to Annex		
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	
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## acc. to OSHA HCS

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· 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
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

· Safety, health and environmental regulations/legislation specific for th	e substance or mixture		
7732-18-5 Water	99.		
7697-37-2 Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314		
·Sara	I •		
· Section 355 (extremely hazardous substances):			
7697-37-2 Nitric Acid			
Section 313 (Specific toxic chemical listings):			
7697-37-2 Nitric Acid			
• <b>TSCA (Toxic Substances Control Act):</b> All ingredients are listed.			
7697-37-2 Nitric Acid			
7732-18-5 Water			
Proposition 65			
Chemicals known to cause cancer:			
None of the ingredients is listed.			
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)			
None of the ingredients is listed.			
TLV (Threshold Limit Value established by ACGIH)			
None of the ingredients is listed.			
NIOSH-Ca (National Institute for Occupational Safety and Health)			
None of the ingredients is listed.			



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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 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.

· 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
- 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.**

USA