

Printing date 02/17/2021 Review date 02/17/2021

1 Identification

- · Product identifier
- · Trade name: ARSENIC 1000 PPM A/S STANDARD
- · Article number N9300180
- · 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



Health hazard

Carc. 1A H350 May cause cancer.



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, GHS08
- · Signal word Danger
- · Hazard-determining components of labeling:

Arsenic

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

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P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

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 = 2 Fire = 0 Reactivity = 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

CAS No. Description

7732-18-5 Water

- · 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 | 2.0% |
| | Ox. Liq. 2, H272 Skin Corr. 1A, H314 | |
| 7440-38-2 | | 0.1% |
| | Acute Tox. 3, H301; Acute Tox. 3, H331 Carc. 1A, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | |
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· Additional Components

7732-18-5 Water

97.9%

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. 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.
- $\cdot \textit{Indication of any immediate medical attention and special treatment needed}$

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.

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).

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

| PAC-1: | |
|-----------------------|-----------------|
| 7697-37-2 Nitric Acid | 0.16 ppm |
| 7440-38-2 Arsenic | 1.5 mg/m |
| PAC-2: | |
| 7697-37-2 Nitric Acid | 24 ppm |
| 7440-38-2 Arsenic | 17 mg/m |
| · | (Contd. on page |



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|-----------------|-------------|------------------|
| · <i>PAC-3:</i> | | |
| 7697-37-2 | Nitric Acid | 92 ppm |
| 7440-38-2 | Arsenic | 100 mg/m³ |

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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

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

7440-38-2 Arsenic

PEL Long-term value: 0.5* 0.01** mg/m³

as As; *organic**inorg. compds.; 29 CFR 1910.1018

REL Ceiling limit value: 0.002 mg/m³

as As; 15min; See Pocket Guide App. A

TLV Long-term value: 0.01 mg/m³

as As; BEI

· Ingredients with biological limit values:

7440-38-2 Arsenic

BEI 35 μg As/L

Medium: urine

Time: end of workweek

Parameter: Inorganic arsenic plus methylated metabolites (background)

· 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.

Store protective clothing separately.

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. 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: Transparent
Odor: Characteristic
Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: $0 \, ^{\circ}C \, (32 \, ^{\circ}F)$ Boiling point/Boiling range: $100 \, ^{\circ}C \, (212 \, ^{\circ}F)$

• Flash point: Not applicable.

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| | | (Contd. of page |
|---------------------------------------|--|-----------------|
| · 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. Not determined. | |
| · 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/wate | e r): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Water: | 97.9 % | |
| VOC content: | 0.00 % | |
| Solids content: | 0.1 % | |
| · 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.

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- · 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) |
|--|
| 7440-38-2 Arsenic |
| NTD (N 1 T 1 L D) |

· NTP (National Toxicology Program)

7440-38-2 | Arsenic

OSHA-Ca (Occupational Safety & Health Administration)

7440-38-2 Arsenic

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.

- · 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.

14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA

UN3264

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| Class 8 Corrosive substances Label 8 ADR Class 8 (C1) Corrosive substances Label 8 IMDG, IATA Class 8 Corrosive substances Label 8 Class 8 Corrosive substances Label 8 Packing group DOT, ADR, IMDG, IATA III Environmental hazards: Marine pollutant: No Special precautions for user Hazard identification number (Kemler code): 80 EMS Number: F-A,S-B Segregation groups Acids Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of | | (Contd. of pag |
|--|-------------------------------------|---|
| Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O (Nitric Acid) IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Acid) Transport hazard class(es) DOT Class Label ADR Class 8 Corrosive substances 8 ADR Class 8 (C1) Corrosive substances 8 IMDG, IATA Class 8 Corrosive substances 8 IMDG, IATA List Class 8 Corrosive substances 8 IMDG, IATA List Class 8 Corrosive substances 8 Class 8 Corrosive substances 8 IMDG, IATA List Environmental hazards: Marine pollutant: No Special precautions for user Hazard identification number (Kemler code): 80 EMS Number: F-A.S-B Segregation groups Stowage Category A SW2 Clear of living quarters. Transport in bulk according to Annex II of Transport in bulk according to Annex II of | UN proper shipping name | |
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| Class 8 Corrosive substances Label 8 ADR Class 8 (C1) Corrosive substances Label 8 IMDG, IATA Class 8 Corrosive substances Label 8 Class 8 Corrosive substances Label 8 Packing group DOT, ADR, IMDG, IATA III Environmental hazards: Marine pollutant: No Special precautions for user Hazard identification number (Kemler code): 80 EMS Number: F-A,S-B Segregation groups Acids Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of | | Acid) |
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| Special precautions for user Hazard identification number (Kemler code): 80 EMS Number: F-A,S-B Segregation groups Acids Stowage Category A Stowage Code SW2 Clear of living quarters. | Marine pollutant: | No |
| Hazard identification number (Kemler code): 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 | | |
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| Transport in bulk according to Annex II of | | |
| | Stowage Code | SW2 Clear of living quarters. |
| | Transport in bulk according to Anne | ex II of |
| | MARPOL73/78 and the IBC Code | Not applicable. |

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Trade name: ARSENIC 1000 PPM A/S STANDARD

| On passenger aircraft/rail: 5 L |
|---|
| On cargo aircraft only: 60 L |
| |
| Code: E1 |
| Maximum net quantity per inner packaging: 30 ml |
| Maximum net quantity per outer packaging: 1000 ml |
| |
| 5L |
| Code: E1 |
| Maximum net quantity per inner packaging: 30 ml |
| Maximum net quantity per outer packaging: 1000 ml |
| UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. |
| (NITRIC ACID), 8, III |
| |

| · Safety, ned | olth and environmental regulations/legislation specific for the substance or mixture | |
|---------------|--|---------------|
| 7732-18-5 | Water | 97.99 |
| 7697-37-2 | Nitric Acid Ox. Liq. 2, H272 Skin Corr. 1A, H314 | 2.0% |
| 7440-38-2 | Arsenic Arsenic Acute Tox. 3, H301; Acute Tox. 3, H331 Carc. 1A, H350 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 0.1% |
| · Sara | | |
| · Section 35 | 5 (extremely hazardous substances): | |
| 7697-37-2 | Nitric Acid | |
| · Section 31 | 3 (Specific toxic chemical listings): | |
| 7697-37-2 | Nitric Acid | |
| 7440-38-2 | Arsenic | |
| | cic Substances Control Act): ents are listed. | |
| 7732-18-5 | Water | ACTIV. |
| 7697-37-2 | Nitric Acid | <i>ACTIV</i> |
| | Arsenic | <i>ACTIVI</i> |

- USA



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· Proposition 65

· Chemicals known to cause cancer:

7440-38-2 Arsenic

· 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)

7440-38-2 Arsenic

A

· TLV (Threshold Limit Value established by ACGIH)

7440-38-2 Arsenic

A1

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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.

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. 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

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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

BEI: Biological Exposure Limit

Ox. Liq. 2: Oxidizing liquids – Category 2

Acute Tox. 3: Acute toxicity – 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

Carc. 1A: Carcinogenicity - Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

* * Data compared to the previous version altered.

LISA