

USA

(Contd. on page 2)

acc. to OSHA HCS

Printing date 09/18/2019

1 Identification

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Trade name: STD 1 ug/mL HG 0.7% HNO3/0.4% HCL

(Contd. of page 1)

3 Composition/information on ingredients

· Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.
- Hazardous components: Void

• Additional	· Additional Components			
7697-37-2	Nitric Acid	 Ø Ox. Liq. 2, H272 Ø Skin Corr. 1A, H314 	0.7%	
7647-01-0	Hydrochloric Acid	Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	0.4%	
7439-97-6	mercury	 Acute Tox. 2, H330 Repr. 1B, H360; STOT RE 1, H372 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 	0.0001%	
7732-18-5	Water		98.8999%	

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · 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: Dilute with plenty of water.*
- Do not allow to enter sewers/ surface or ground water.
- 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.

(Contd. on page 3)

USA



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See Section 8 for information on personal protection equipment.	(Contd. of page 2
See Section 13 for disposal information. Protective Action Criteria for Chemicals	
PAC-1:	
7697-37-2 Nitric Acid	0.16 ppm
7647-01-0 Hydrochloric Acid	1.8 ppm
7439-97-6 mercury	0.15 mg/m ³
PAC-2:	·
7697-37-2 Nitric Acid	24 ppm
7647-01-0 Hydrochloric Acid	22 ppm
7439-97-6 mercury	1.7 mg/m ³
PAC-3:	
7697-37-2 Nitric Acid	92 ppm
7647-01-0 Hydrochloric Acid	100 ppm
7439-97-6 mercury	8.9 mg/m ²

7 Handling and storage

- · Handling:
- Precautions for safe handling No special measures required.
- · 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: None.
- 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:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- Protection of hands:

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

(Contd. on page 4)



Printing date 09/18/2019

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· Material of gloves

(Contd. of page 3)

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: Goggles recommended during refilling.*

Information on basic physical and c	hemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Dark brown	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
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.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
<i>Density at 20 °C (68 °F):</i>	1.00413 g/cm ³ (8.37946 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	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	

USA



Review date 09/18/2019

Trade name: STD 1 ug/mL HG 0.7% HNO3/0.4% HCL

		(Contd. of page 4)
Kinematic:	Not determined.	
· Solvent content:		
Water:	98.9 %	
VOC content:	0.00 %	
Solids content:	0.0 %	
• 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: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7647-01-0 Hydrochloric Acid

7439-97-6 mercury

· 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.

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3

USA



Printing date 09/18/2019

Review date 09/18/2019

(Contd. of page 5)

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· 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: Not hazardous for water.

· 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: Smaller quantities can be disposed of with household waste.

· 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	Void	
UN proper shipping name DOT, ADR, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	Void	
Packing group DOT, ADR, IMDG, IATA	Void	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	x II of Not applicable.	
UN "Model Regulation":	Non regulated according to above specifications. Void	

(Contd. on page 7)



Printing date 09/18/2019

Review date 09/18/2019

Trade name: STD 1 ug/mL HG 0.7% HNO3/0.4% HCL

(Contd. of page 6)

Safety, health and environmental regulations/legities	islation specific for the substance or mixture	
7732-18-5 Water		98.89999
7697-37-2 Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	0.7%
7647-01-0 Hydrochloric Acid	Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	0.4%
Sara	•	
Section 355 (extremely hazardous substances):		
7697-37-2 Nitric Acid		
7647-01-0 Hydrochloric Acid		
Section 313 (Specific toxic chemical listings):		
7697-37-2 Nitric Acid		
7647-01-0 Hydrochloric Acid		
7439-97-6 mercury		
TSCA (Toxic Substances Control Act):		
7697-37-2 Nitric Acid		ACTIV
7647-01-0 Hydrochloric Acid		ACTIV
7439-97-6 mercury		ACTIV
7732-18-5 Water		ACTIV
Hazardous Air Pollutants		· ·
7647-01-0 Hydrochloric Acid		
Proposition 65		
Chemicals known to cause cancer:		
None of the ingredients is listed.		
Chemicals known to cause reproductive toxicity f	for females:	
None of the ingredients is listed.		
Chemicals known to cause reproductive toxicity f	for males:	
None of the ingredients is listed.		
Chemicals known to cause developmental toxicity	:	
7439-97-6 mercury		
Cancerogenity categories		
EPA (Environmental Protection Agency)		
7439-97-6 mercury		Ì
TLV (Threshold Limit Value established by ACG	IH)	I
7647-01-0 Hydrochloric Acid		A
7439-97-6 mercury		A
NIOSH-Ca (National Institute for Occupational S	Safety and Health)	'
None of the ingredients is listed.		
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Trade name: STD 1 ug/mL HG 0.7% HNO3/0.4% HCL (Contd. of page 7) · National regulations: · Water hazard class: Generally not 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: 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 USA