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acc. to OSHA HCS

Printing date 09/20/2018

Review date 09/20/2018

Product iden	
Article num	: STD, Mercury, 1000 ppm ber N9303740
	of the substance / the mixture Laboratory chemicals
	e supplier of the safety data sheet er/Supplier:
PerkinElmer	; Inc.
710 Bridgep	
	nnecticut 06484 USA
	reUS@perkinelmer.com
203-925-460	itelephone number:
	C (within US) 800-424-9300
	C (from outside US) + 1 703-527-3887 (call collect)
	C (within AU) +(61)-290372994
Hazard(s)	identification
Classificatio	n of the substance or mixture
A H	ealth hazard
Repr. 1A	H360 May damage fertility or the unborn child.
쓴 🖑 C	orrosion
\mathbf{V}	
Skin Corr. 1	B H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Label eleme	
	lements The product is classified and labeled according to the Globally Harmonized System (GHS)
	ograms GHS05, GHS08
a. 1 ⁻	Danger
Signal word	
Hazard-dete	rmining components of labeling:
Hazard-dete Nitric Acid	rmining components of labeling:
Hazard-dete Nitric Acid mercury	
Hazard-dete Nitric Acid mercury Hazard state	ements
Hazard-dete Nitric Acid mercury Hazard state H314 Cause	e ments s severe skin burns and eye damage.
Hazard-dete Nitric Acid mercury Hazard state H314 Cause H360 May a	ements s severe skin burns and eye damage. amage fertility or the unborn child.
Hazard-dete Nitric Acid mercury Hazard state H314 Cause H360 May a	ements s severe skin burns and eye damage. amage fertility or the unborn child. ry statements Obtain special instructions before use.
Hazard-dete Nitric Acid mercury Hazard stata H314 Cause H360 May a Precautiona P201 P202	ements s severe skin burns and eye damage. amage fertility or the unborn child. ry statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hazard-dete Nitric Acid mercury Hazard state H314 Cause H360 May a Precautiona P201 P202 P260	ements s severe skin burns and eye damage. amage fertility or the unborn child. ry statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dusts or mists.
Hazard-dete Nitric Acid mercury Hazard stata H314 Cause H360 May a Precautiona P201 P202 P260 P264	ements s severe skin burns and eye damage. amage fertility or the unborn child. ry statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dusts or mists. Wash thoroughly after handling.
Hazard-dete Nitric Acid mercury Hazard state H314 Cause H360 May a Precautiona P201 P202 P260	ements s severe skin burns and eye damage. amage fertility or the unborn child. ry statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dusts or mists.



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Trade name: STD, Mercury, 1000 ppm

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P308+P313 IF exposed or concerned: Get medical advice/attention. P321 Specific treatment (see on this label). P363 Wash contaminated clothing before reuse. 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 3 Fire = 0 Reactivity = 0 HEALTH 3 Fire = 0 REACTIVITY 0 Reactivity = 0	ת ו הככת ו הבת	(Contd. of	f page 1)
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7732-18-5 Water Identification number(s) 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 7439-97-6 mercury Ø Acute Tox. 2, H330 0.1%	The product do formaldehydes. • Results of PBT • PBT: Not applie • vPvB: Not apple B Composition	and vPvB assessment icable. licable. n/information on ingredients	nds or
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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	The product do formaldehydes. • Results of PBT • PBT: Not applie • vPvB: Not apple Composition • Chemical chara • CAS No. Descr	and vPvB assessment icable. licable. v/information on ingredients vacterization: Substances ription	nds or
Chemical baracterization: Mixtures Description: Mixture of the substances listed below with nonhazardous additions.Hazardous components:7697-37-2Nitric AcidOx. Liq. 2, H272 Skin Corr. 1A, H31410.0%7439-97-6mercuryAcute Tox. 2, H330 Repr. 1B, H360; STOT RE 1, H3720.1%	The product do formaldehydes. • Results of PBT • PBT: Not applie • vPvB: Not applie • Composition • Chemical chara • CAS No. Descri 7732-18-5 Wate	and vPvB assessment icable. licable. n/information on ingredients acterization: Substances ription er	nds or
Description: Mixture of the substances listed below with nonhazardous additions. Hazardous components: 7697-37-2 Nitric Acid Ox. Liq. 2, H272 10.0% 7439-97-6 mercury Acute Tox. 2, H330 0.1%	The product do formaldehydes. • Results of PBT • PBT: Not applie • vPvB: Not applie • Chemical chara • CAS No. Descri 7732-18-5 Wate • Identification n	and vPvB assessment icable. licable. n/information on ingredients acterization: Substances ription er number(s)	nds or
Hazardous components: 7697-37-2 Nitric Acid Ox. Liq. 2, H272 10.0% 7439-97-6 mercury Acute Tox. 2, H330 0.1% Repr. 1B, H360; STOT RE 1, H372	The product do formaldehydes. • Results of PBT • PBT: Not applie • vPvB: Not applie • Chemical chara • CAS No. Descrit 7732-18-5 Wate • Identification n • EC number: 23	T and vPvB assessment icable. licable. n/information on ingredients vacterization: Substances ription er number(s) 31-791-2	nds or
7697-37-2 Nitric Acid Ox. Liq. 2, H272 10.0% 7439-97-6 mercury Skin Corr. 1A, H314 0.1% 7439-10-6 Mercury Repr. 1B, H360; STOT RE 1, H372 0.1%	The product do formaldehydes. • Results of PBT • PBT: Not applie • vPvB: Not applie • Chemical chard • CAS No. Descrit 7732-18-5 Wate • Identification n • EC number: 23 • Chemical chard	T and vPvB assessment icable. licable. n/information on ingredients acterization: Substances ription er number(s) 31-791-2 acterization: Mixtures	nds or
7439-97-6 mercury Ø Acute Tox. 2, H330 Ø Repr. 1B, H360; STOT RE 1, H372	The product do formaldehydes. • Results of PBT • PBT: Not applie • vPvB: Not applie • Chemical chara • CAS No. Descri 7732-18-5 Wate • Identification n • EC number: 23 • Chemical chara • Description: Mu	T and vPvB assessment icable. licable. n/information on ingredients macterization: Substances ription er number(s) 31-791-2 macterization: Mixtures fixture of the substances listed below with nonhazardous additions.	nds or
7439-97-6 mercury Skin Corr. 1A, H314 7439-97-6 mercury Acute Tox. 2, H330 0.1% Sept. 1B, H360; STOT RE 1, H372 Store 1, H372 0.1%	The product do formaldehydes. • Results of PBT • PBT: Not applie • vPvB: Not applie • Chemical chara • CAS No. Descri 7732-18-5 Wate • Identification n • EC number: 23 • Chemical chara • Description: Mu	T and vPvB assessment icable. licable. n/information on ingredients macterization: Substances ription er number(s) 31-791-2 macterization: Mixtures fixture of the substances listed below with nonhazardous additions.	nds or
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	The product do formaldehydes. Results of PBT PBT : Not applie vPvB : Not applie Composition Chemical chara CAS No. Descri 7732-18-5 Wate Identification n EC number: 23 Chemical chara Description: Ma Hazardous com 7697-37-2 Nitr	T and vPvB assessment icable. licable. licable. v/information on ingredients vacterization: Substances ription er number(s) 31-791-2 acterization: Mixtures fixture of the substances listed below with nonhazardous additions. nponents: ric Acid Intervent rcury Image: Acute Tox. 2, H330	10.0%



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89.9%

Trade name: STD, Mercury, 1000 ppm

· Additional Components

7732-18-5 Water

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. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a 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
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
• 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).	
Use neutralizing agent.	
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
7439-97-6 mercury	$0.15 \ mg/m^3$
	(Contd. on page 4)



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	(Contd. of page 3)
• PAC-2:	
7697-37-2 Nitric Acid	24 ppm
7439-97-6 mercury	1.7 mg/m ³
• PAC-3:	
7697-37-2 Nitric Acid	92 ppm
7439-97-6 mercury	8.9 mg/m ³

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: The product is not flammable. 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

Com	for parameters
· Com	ponents with limit values that require monitoring at the workplace:
7697	-37-2 Nitric Acid
PEL	Long-term value: 5 mg/m ³ , 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
7439	-97-6 mercury
PEL	Long-term value: 0.1 mg/m ³ as Hg; see OSHA standard interpretation memo
REL	Long-term value: 0.05* mg/m ³ Ceiling limit value: 0.1 mg/m ³ as Hg; *Vapor; Skin
TLV	Long-term value: 0.025 mg/m³ as Hg; Skin; BEI
	(Contd. on page 5)
	- US/



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(Contd. of page		
-	Ingredients with biological limit values:	
	0-97-6 mercury	
BEI	35 μg/g creatinine	
	Medium: urine	
	Time: prior to shift	
	Parameter: Total inorganic mercury (background	
	15 μg/L	
	Medium: blood	
	Time: end of shift at end of workweek	
	Parameter: Total inorganic mercury (background)	
Add	itional information: The lists that were valid during the creation were used as basis.	
Exp	osure controls	
	onal protective equipment:	
Gen	eral protective and hygienic measures:	
	o away from foodstuffs, beverages and feed.	
Imm	ediately remove all soiled and contaminated clothing.	
Was	h hands before breaks and at the end of work.	
Stor	e protective clothing separately.	
Avoi	d contact with the eyes.	
Avoi	d contact with the eyes and skin.	
Bred	thing equipment:	
In co	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us	
resp	iratory protective device that is independent of circulating air.	
Prot	ection of hands:	
	Ωη	
111	Protective gloves	
The	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.	
	ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation	
	erial of gloves	
	selection of the suitable gloves does not only depend on the material, but also on further marks of quality an	
	es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance	
	e glove material can not be calculated in advance and has therefore to be checked prior to the application.	
	extration time of glove material	
	exact break trough time has to be found out by the manufacturer of the protective gloves and has to b	
	rved.	
	protection:	
_, , ,		
10		
¢€	Tightly sealed goggles or safety glasses	

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Trade name: STD, Mercury, 1000 ppm

(Contd. of page 5)

· 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 °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.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
• Density at 20 •C (68 •F):	1 g/cm ³ (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/wat	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Water:	89.9 %
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.

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- · 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: Caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- *The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive*
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

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.
- · 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. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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• 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.

· UN-Number	
· DOT, ADR, IMDG, IATA	UN2031
· UN proper shipping name	
·DOT	Nitric acid
	2031 Nitric acid
· IMDG, IATA	NITRIC ACID
• Transport hazard class(es)	
·DOT	
1 Alexandre	
URRUSIVE	
~	
· Class	8 Corrosive substances
·Label	8
· ADR	
3	
· Class	8 (C9) Corrosive substances
· Label	8
· IMDG, IATA	
INIDO, IAIA	
ST 34	
*	
· Class	8 Corrosive substances
· Label	8

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USA

acc. to OSHA HCS

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Trade name: STD, Mercury, 1000 ppm

	(Contd. of page
Packing group	
DOT, ÅDR, İMDG, IATA	11
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, heavy metals and their salts (including their organometalli
	compounds)
Stowage Category	D
Transport/Additional information:	
MARPOL73/78 and the IBC Code	Not applicable.
DOT	On nagagneon given given given given and the state
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
· · · · · · · · · · · · · · · · · · ·	Code: E2
Excepted quantities (EQ)	
Excepted quantities (EQ)	
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

15 Regulatory information · Safety, health and environmental regulations/legislation specific for the substance or mixture 7732-18-5 Water 89.9% 7697-37-2 Nitric Acid 10.0% 🚳 Ox. Liq. 2, H272 \delta Skin Corr. 1A, H314 7439-97-6 mercury 🛞 Acute Tox. 2, H330 0.1% 🕉 Repr. 1B, H360; STOT RE 1, H372 · Sara • Section 355 (extremely hazardous substances): 7697-37-2 Nitric Acid · Section 313 (Specific toxic chemical listings): 7697-37-2 Nitric Acid 7439-97-6 mercury (Contd. on page 10)



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A4

• **TSCA** (Toxic Substances Control Act): All ingredients are listed.

7697-37-2 Nitric Acid

7439-97-6 mercury

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:

7439-97-6 mercury

· Cancerogenity categories

· EPA (Environmental Protection Agency)

7439-97-6 mercury

· TLV (Threshold Limit Value established by ACGIH)

7439-97-6 mercury

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

None of the ingredients is listed.

· 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 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

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Trade name: STD, Mercury, 1000 ppm

(Contd. of page 10) • 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 BEI: Biological Exposure Limit Ox. Liq. 2: Oxidizing liquids - Category 2 Acute Tox. 2: Acute toxicity – Category 2 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Repr. 1A: Reproductive toxicity - Category 1A Repr. 1B: Reproductive toxicity - Category 1B STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 * * Data compared to the previous version altered.