08.04.2019	Kit components
Product code	Description
N9307119	STD KIT ENV NexION KED/DRC MODE
Components:	
N9307805	STD Envir Custom 1
N9307806	STD Envir Custom 2
N9301721	Instrument Calibration Standard 2
N9300253	MERCURY A/S STANDARD
N9307807	Environmental Standard Custom 3
N9308592	STD INTERNAL STOCK SOLN 300X/D



*

according to WHS Regulations

Printing date 08.04.2019

Revision: 08.04.2019

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification
· Product identifier
 Trade name: <u>STD Envir Custom 1</u> Article number: N9307805 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. 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
Supplier/Local:
PerkinElmer Australia Lvl 2, Bldg 5, Brandon Office Park 530-540 Springvale Road Glen Waverley Melbourne VIC 3150 Australia 1-800-033-391 ausales@perkinelmer.com 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
corrosion
Skin Corr. 1 H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.
• Label elements • GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). • Hazard pictograms GHS05 • Signal word Danger
(Contd. on page 2)



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Trade name: STD Envir Custom 1

	(Contd. of page 1)
· Hazard-dete	ermining components of labelling:
Nitric Acid	
· Hazard state	ements
H314 Cause	es severe skin burns and eye damage.
· Precautiona	iry statements
P260	Do not breathe dusts or mists.
P303+P361	+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• Other hazar	ds
The product formaldehyd	t does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or les.
· Results of P	BT and vPvB assessment
· PBT: Not ap	pplicable.

· vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous comp	onents:		
7697-37-2 Nitric	Nitric Acid Ox. Liq. 2, H272 Skin Corr. 1, H314		5.0%
· Additional Comp	onents		
7440-09-7 potass	ium	Water-react. 1, H260 Skin Corr. 1, H314	0.1%
7440-23-5 sodiur	n	Water-react. 1, H260 Skin Corr. 1, H314	0.1%
7439-95-4 magne	esium	📀 Pyr. Sol. 1, H250; Water-react. 1, H260	0.1%
7440-70-2 calciu	т	🚸 Water-react. 2, H261	0.1%
7732-18-5 Water	,		94.6%
· Additional inform	nation · For the wording	of the listed hazard phrases refer to section 16	

Additional information: For the wording of the listed hazard phrases refer to section 16.

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.

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Trade name: STD Envir Custom 1

(Contd. of page 2)

- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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 extinguishing methods suitable to surrounding conditions.
- 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.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising 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.

7 Handling and Storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection: 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 container tightly sealed.
- Specific end use(s) No further relevant information available.

(Contd. on page 4)



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Trade name: STD Envir Custom 1

(Contd. of page 3)

8 Exposure controls and personal protection • Additional information about design of technical facilities: No further data; see item 7. · Control parameters · Ingredients with limit values that require monitoring at the workplace: 7697-37-2 Nitric Acid NES Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm WES Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm • Additional information: The lists valid during the making 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 Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin. • Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. · 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

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Trade name: STD Envir Custom 1

(Contd. of page 4)

· Information on basic physical and chemical properties		
· Information on basic physical and chemi · General Information	ical properties	
Appearance:		
Form:	Liquid	
Colour:	Transparent	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour 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/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	94.6 %	
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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Trade name: STD Envir Custom 1

(Contd. of page 5)

- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation Strong caustic effect on skin and mucous membranes.
- · Serious eye damage/irritation
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitisation** No sensitising effects known.
- Additional toxicological information:
- The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- Corrosive

Irritant

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

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour 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 sewage water or drainage ditch undiluted or unneutralised.

- · 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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according to WHS Regulations

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Trade name: STD Envir Custom 1

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(Contd. of page 6)

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADG, IMDG, IATA	UN3264
UN proper shipping name	
ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.C
	(nitric acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O
	(nitric acid)
Transport hazard class(es)	
ADG	
\wedge	
and the second s	
\mathbf{V}	
Class	8 (C1) Corrosive substances.
Label	8
· IMDG, IATA	
Class	8 Corrosive substances.
· Label	8
Packing group ADG, IMDG, IATA	111
	111
Environmental hazards:	No
Marine pollutant:	
Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80 E. (.C. D.
EMS Number:	F-A,S-B
Segregation groups	Acids A
Stowage Category	
Stowage Category	SW / CIPAR ALIWING ANARIDRS
Stowage Category Stowage Code Transport in bulk according to Annex I	SW2 Clear of living quarters.



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Trade name: STD Envir Custom 1

	(Contd. of page 2
Transport/Additional information:	
ADG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: El
· · · · · · · · · · · · · · · · · · ·	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

15 Regulatory information • Safety, health and environmental regulations/legislation specific for the substance or mixture			
7732-18-5			94.6%
7697-37-2	Nitric Acid	 Øx. Liq. 2, H272 Skin Corr. 1, H314 	5.0%
7440-23-5	sodium	Water-react. 1, H260 Skin Corr. 1, H314	0.1%

· Directive 2012/18/EU

• Named dangerous substances - ANNEX I 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.

· Waterhazard 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

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Trade name: STD Envir Custom 1

	(Conto	d. of page 8
Relevant phro		
-	e spontaneously if exposed to air.	
	with water releases flammable gases which may ignite spontaneously.	
	with water releases flammable gases.	
	fy fire; oxidiser.	
H314 Causes	ere skin burns and eye damage.	
Department i	ng SDS: Environmental, Health and Safety	
Contact:		
Within the US	1-(800)-762-4000	
	1-(203)-712-8488	
Abbreviations		
	rnational concernant le transport des marchandises dangereuses par chemin de fer (Regulations Con	cerning th
	rt of Dangerous Goods by Rail)	
	ivil Aviation Organisation	
	en sur le transport des marchandises dangereuses par Route (European Agreement concerning the In	ternation
	s Goods by Road)	
	Maritime Code for Dangerous Goods	
	ir Transport Association	
	ventory of Existing Commercial Chemical Substances st of Notified Chemical Substances	
	icts Service (division of the American Chemical Society)	
	ccumulative and Toxic	
	and very Bioaccumulative	
	iquids – Category 2	
Skin Corr. 1: Skii	rosion/irritation – Category 1	
	ye damage/eye irritation – Category 1	
* Data compa	to the previous version altered.	



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according to WHS Regulations

Printing date 08.04.2019

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Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification
· Product identifier
 Trade name: <u>STD Envir Custom 2</u> Article number: N9307806 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. 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
Supplier/Local:
PerkinElmer Australia Lvl 2, Bldg 5, Brandon Office Park 530-540 Springvale Road Glen Waverley Melbourne VIC 3150 Australia 1-800-033-391 ausales@perkinelmer.com 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
Corrosion
Skin Corr. 1 H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
• Label elements • GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). • Hazard pictograms GHS05
• Signal word Danger (Contd. on page 2)



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Trade name: STD Envir Custom 2

	(Contd. of page 1)
· Hazard-determi	ning components of labelling:
Nitric Acid	
· Hazard stateme	nts
H314 Causes se	vere skin burns and eye damage.
· Precautionary s	tatements
P260	Do not breathe dusts or mists.
P303+P361+P3	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P3	38 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.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• Other hazards	
The product do formaldehydes.	es not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or
· Results of PBT	and vPvB assessment
• PBT: Not applic	cable.
• vPvB: Not appli	cable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous	components:			
7697-37-2	Nitric Acid	🚸 Ox. Liq. 2, H272 🞸 Skin Corr. 1, H31	5.0%	
· Additional Components				
7439-89-6	iron	🔗 Acute Tox. 2, H300	0.01%	
1344-28-1	aluminium oxide		0.01%	
7732-18-5	Water		94.98%	
• Additional information: For the wording of the listed hazard phrases refer to section 16.				

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 plenty of water and provide fresh air. Call for a doctor immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)



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Trade name: STD Envir Custom 2

(Contd. of page 2)

• *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 extinguishing methods suitable to surrounding conditions.
- 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. • *Methods and material for containment and cleaning up:*

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising 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.

7 Handling and Storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about fire and explosion protection: 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 container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

(Contd. on page 4)

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Trade name: STD Envir Custom 2

Ingre	dients with limit values that require monitoring at the workplace:
7697	-37-2 Nitric Acid
NES	Short-term value: 10 mg/m ³ , 4 ppm
	Long-term value: 5.2 mg/m ³ , 2 ppm
WES	Short-term value: 10 mg/m ³ , 4 ppm
	Long-term value: 5.2 mg/m ³ , 2 ppm
Addi	tional information: The lists valid during the making were used as basis.
Expo	sure controls
	onal protective equipment:
	ral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing
	hands before breaks and at the end of work.
	l contact with the eyes. l contact with the eyes and skin.
	iratory protection:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us
	ontained respiratory protective device.
Prote	ection of hands:
NU.	Protective gloves
Selec	clove material has to be impermeable and resistant to the product/ the substance/ the preparation. tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves
The s varie of the	velection of the suitable gloves does not only depend on the material, but also on further marks of quality an s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistanc glove material can not be calculated in advance and has therefore to be checked prior to the application. tration time of glove material
	exact break trough time has to be found out by the manufacturer of the protective gloves and has to b
Eye p	protection:
ł	Tightly sealed goggles

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

*

Liquid

(Contd. on page 5)



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Trade name: STD Envir Custom 2

		(Contd. of page
Colour:	Transparent	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	:: 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour 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/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	95.0 %	
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.

(Contd. on page 6)

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(Contd. of page 5)

Trade name: STD Envir Custom 2

• *Hazardous decomposition products:* No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- Skin corrosion/irritation Strong caustic effect on skin and mucous membranes.
- · Serious eye damage/irritation
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitisation** No sensitising effects known.

• Additional toxicological information:

- The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- Corrosive Irritant

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

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour 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 sewage water or drainage ditch undiluted or unneutralised.

- · 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

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Trade name: STD Envir Custom 2

· Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

UN-Number	
ADG, IMDG, IATA	UN3264
UN proper shipping name	
ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
	(nitric acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (nitric acid)
Transport bar and alaga(ag)	(mine dela)
Transport hazard class(es)	
ADG	
8	
Class	8 (C1) Corrosive substances.
Label	8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
Packing group	
ADG, 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	
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex I	I of Marpol



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Revision: 08.04.2019

Trade name: STD Envir Custom 2

	(Contd. of page 2
Transport/Additional information:	
ADG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: El
· · · · · ·	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

15 R	egul	latory	infa	ormat	ion
	0		J		

· Safety, health and environmental regulations/legislation specific for the substance or mixture					
7732-18-5	Water		94.98%		
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1, H314	5.0%		
1344-28-1	aluminium oxide		0.01%		

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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.

· Waterhazard 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

(Contd. on page 9)

AU



Printing date 08.04.2019

Revision: 08.04.2019

Trade name: STD Envir Custom 2

Relevant phrases H272 May intensify fire; oxidiser. H300 Fatal if swallowed. H314 Causes severe skin burns and eye damage. 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 Internation Carriage of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods LITA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids – Category 2 Skin Corr. 1: Skin corrosion/irritation – Category 1 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Dam. Evention – Category 1		(Contd. of page
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Skin Corr. 1: Skin corrosion/irritation – Category 1 Eye Dam. 1: Serious eye damage/eye irritation – Category 1	vPvB: very Persi.	tent and very Bioaccumulative
Eye Dam. 1: Serious eye damage/eye irritation – Category 1		
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according to WHS Regulations

Printing date 08.04.2019

Revision: 08.04.2019

Hazardous according to criteria of Australian Safety and Compensation Council.

duct identifier de name: <u>Instrument Calibration Standard 2</u> cle number: N9301721
cle number: N9301721
r vant identified uses of the substance or mixture and uses advised against further relevant information available. lication of the substance / the mixture Laboratory chemicals
nils of the supplier of the safety data sheet nufacturer/Supplier:
kinElmer, Inc. Bridgeport Avenue ton, Connecticut 06484 USA tomerCareUS@perkinelmer.com -925-4600
plier/Local:
kinElmer Australia 2, Bldg 5, Brandon Office Park -540 Springvale Road 1 Waverley bourne 3150 tralia 10-033-391 iles@perkinelmer.com ergency telephone number: EMTREC (within US) 800-424-9300 EMTREC (from outside US) +1 703-527-3887 (call collect) EMTREC (within AU) +(61)-290372994
zard(s) Identification
sification of the substance or mixture
corrosion
Corr. 1 H314 Causes severe skin burns and eye damage.
Dam. 1 H318 Causes serious eye damage.
te Tox. 4 H302 Harmful if swallowed.



Revision: 08.04.2019 Printing date 08.04.2019 Trade name: Instrument Calibration Standard 2 (Contd. of page 1) Acute Tox. 4 H312 Harmful in contact with skin. · Label elements • GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). · Hazard pictograms GHS05, GHS07 · Signal word Danger · Hazard-determining components of labelling: Nitric Acid Hydrofluoric acid · Hazard statements H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. P260 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P310 P322 Specific measures (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · 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 and Information on Ingredients

· Chemical characterisation: Mixtures

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

• Dangerous 6 7697-37-2	•	2 314
· Additional (Components	1
7664-39-3	Hydrofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1, H314	- 0.3%
133-37-9	(+-)-tartaric acid	0.2%
7440-41-7	beryllium Acute Tox. 3, H301; Acute Tox. 2, H330 Carc. 1B, H350; STOT RE 1, H372 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.001%
	(Co	ntd. on page



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7440-70-2 cal.	Water-react. 2, H261 romium balt Resp. Sens. 1, H334 Skin Sens. 1, H317 pper on	- 0.0019 - 0.0019 - 0.0019 - 0.0019 - 0.0019 - 0.0019 - 0.0019
7440-70-2 cal. 7440-47-3 chr 7440-48-4 cob 7440-50-8 cop 7440-50-8 cop 7439-89-6 iron	Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372 lcium Water-react. 2, H261 romium balt Resp. Sens. 1, H334 Skin Sens. 1, H317 pper on	- 0.001% - 0.001% 0.001%
7440-47-3 chr 7440-48-4 cob 7440-50-8 cop 7440-50-8 cop 7439-89-6 iron	Water-react. 2, H261 romium balt Resp. Sens. 1, H334 Skin Sens. 1, H317 pper on	- 0.001% - 0.001% 0.001%
7440-47-3 chr 7440-48-4 cob 7440-50-8 cop 7439-89-6 iron	romium balt Resp. Sens. 1, H334 Skin Sens. 1, H317 pper on	- 0.0019 0.0019
7440-50-8 cop 7439-89-6 iroi	Resp. Sens. 1, H334 Skin Sens. 1, H317 pper on	0.001%
√ 7440-50-8 cop 7439-89-6 iroi ∳	o Skin Sens. 1, H317 pper on	
7439-89-6 iroi	on	
		0 00 10
	Acute Tox. 2, H300	- 0.001%
7439-92-1 lea		0.0019
	Repr. 1A, H360	-
7439-95-4 mag		0.001%
	Pyr. Sol. 1, H250; Water-react. 1, H260	-
1317-35-7 trin	manganese tetraoxide	0.001%
1313-27-5 mo	olybdenum trioxide	0.0019
۵	Acute Tox. 3, H301 Carc. 2, H351 Eye Irrit. 2, H319; STOT SE 3, H335	
7440-02-0 nic	ckel	0.001%
	Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	-
7440-36-0 ant	timony Acute Tox. 3, H311; Acute Tox. 3, H331	- 0.001%
7440-09-7 pot	tassium	0.001%
	Water-react. 1, H260 Skin Corr. 1, H314	_
7782-49-2 sele	lenium	0.001%
	Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373	
7440-22-4 silv	ver	0.001%
7440-23-5 soa	dium Water-react. 1, H260	- 0.001%
	Skin Corr. 1, H314	
10042-76-9 stre	ontium nitrate Ox. Sol. 2, H272	_ 0.0019
7440-28-0 tha		0.0019
	Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	-
7440-31-5 tin	!	0.0019
7440-32-6 tita	anium	0.001%
۵	Self-heat. 1, H251; Water-react. 1, H260	-



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Trade name: Instrument Calibration Standard 2

		ntd. of page 3)
7440-62-2	vanadium	0.001%
7429-90-5	aluminium	0.001%
7440-66-6		0.001%
	🚸 Water-react. 2, H261	-
7440-38-2		0.001%
	🚸 Acute Tox. 3, H301; Acute Tox. 3, H331	-
7440-39-3		0.001%
	🚸 Water-react. 2, H261	-
7732-18-5	Water	94.474%
· Additional i	<i>nformation:</i> For the wording of the listed hazard phrases refer to section 16.	

4 First Aid Measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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.

Rub in Ca-gluconate solution or Ca-gluconate gel immediately.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 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 extinguishing methods suitable to surrounding conditions.

· 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.

(Contd. on page 5)

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(Contd. of page 4)

Trade name: Instrument Calibration Standard 2

 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
 Reference to other sections

· 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 fire and explosion protection: 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 container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7697-37-2 Nitric Acid

NES Short-term value: 10 mg/m³, 4 ppm

Long-term value: 5.2 mg/m³, 2 ppm WES Short-term value: 10 mg/m³, 4 ppm

Long-term value: 5.2 mg/m³, 2 ppm

• Additional information: The lists valid during the making 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

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 6)

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Trade name: Instrument Calibration Standard 2

Contd. of page 5)
Protection of hands: *iveral of 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.
Experimential
Tightly sealed goggles **9 Physical and Chemical Properties**

Appearance:		
Form:	Liquid	
Colour:	Transparent	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value at 20 °C:	<4	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	e: 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	



Printing date 08.04.2019

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	(Contd.	of page 6)
· Vapour pressure at 20 •C:	23 hPa	
· Density at 20 °C:	$l g/cm^3$	
· 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/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	94.5 %	
• 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:
- · Skin corrosion/irritation Strong caustic effect on skin and mucous membranes.
- · Serious eye damage/irritation
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

Corrosive

Irritant

(Contd. on page 8)

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(Contd. of page 7)

Trade name: Instrument Calibration Standard 2

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

12 Ecological Information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour 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 sewage water or drainage ditch undiluted or unneutralised.

- · 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· ADG, IMDG, IATA	UN3264
· UN proper shipping name	
·ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O
	(Nitric Acid, hydrofluoric acid)
·IMDG	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O
	(Nitric Acid, hydrofluoric acid), MARINE POLLUTANT
·IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
	(Nitric Acid, hydrofluoric acid)



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	(Contd. of page
Transport hazard class(es)	
ADG	
Class Label	8 (C1) Corrosive substances.
	8
Class	8 Corrosive substances.
Label	8
Class Label	8 Corrosive substances. 8
Packing group ADG, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler): EMS Number:	80 F-A,S-B
Segregation groups	Г-А, S-D Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II and the IBC Code	of Marpol Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml



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Trade name: Instrument Calibration Standard 2

	(Contd. of page 9)
• Tunnel restriction code	E
· 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, HYDROFLUORIC ACID), 8, III

Safety, health and environmental regulations/legislation specific for the substance or mixture		
7732-18-5	Water	94.474%
	Nitric Acid Ox. Liq. 2, H272 Skin Corr. 1, H314	5.0%
7664-39-3	Hydrofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1, H314	0.3%

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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.

• Waterhazard 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· Relevant phrases

H250 Catches fire spontaneously if exposed to air.
H251 Self-heating: may catch fire.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H261 In contact with water releases flammable gases.
H272 May intensify fire; oxidiser.

(Contd. on page 11)

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Printing date 08.04.2019

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Trade name: Instrument Calibration Standard 2

(Contd. of page 10) H300 Fatal if swallowed. H301 Toxic if swallowed. H310 Fatal in contact with skin. H311 Toxic in contact with skin. H314 Causes severe skin burns and eve damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H331 Toxic if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. · 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 IATA: International Air Transport Association 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1: Skin corrosion/irritation - Category 1 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 • * Data compared to the previous version altered.



*

according to WHS Regulations

Printing date 08.04.2019

Revision: 08.04.2019

Hazardous according to criteria of Australian Safety and Compensation Council.

Id	entification
Pr	oduct identifier
	ade name: <u>MERCURY A/S STANDARD</u>
	ticle number: N9300253
	l evant identified uses of the substance or mixture and uses advised against of further relevant information available.
	plication of the substance / the mixture Laboratory chemicals
-	tails of the supplier of the safety data sheet
	anufacturer/Supplier:
Pe	rkinElmer, Inc.
	0 Bridgeport Avenue
	elton, Connecticut 06484 USA
	ustomerCareUS@perkinelmer.com
20	3-925-4600
Su	pplier/Local:
 Pe	rkinElmer Australia
	l 2, Bldg 5, Brandon Office Park
	0-540 Springvale Road
	en Waverley
	elbourne
	C 3150
	Istralia
	800-033-391
	sales@perkinelmer.com nergency telephone number:
	HEMTREC (within US) 800-424-9300
	HEMTREC (from outside US) $+1$ 703-527-3887 (call collect)
	<i>HEMTREC</i> (within AU) +(61)-290372994
H	azard(s) Identification
Cl	assification of the substance or mixture
1	corrosion
Sk	in Corr. 1 H314 Causes severe skin burns and eye damage.
Ey	e Dam. 1 H318 Causes serious eye damage.
	bel elements
	HS label elements The product is classified and labelled according to the Globally Harmonised System (GHS
Ηd	nzard pictograms GHS05 gnal word Danger



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Trade name: MERCURY A/S STANDARD

	(Contd. of page 1)
Hazard-det	ermining components of labelling:
Nitric Acid	
Hazard stat	tements
H314 Cause	es severe skin burns and eye damage.
	ary statements
P260	Do not breathe dusts or mists.
P303+P361	<i>I+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</i>
P305+P351	I+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.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazar	
The product formaldehy	ct does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or des.
Results of I	PBT and vPvB assessment
PBT: Not a	pplicable.
vPvB: Not d	applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

0	components:		
7697-37-2	Nitric Acid	 Ox. Liq. 2, H272 Skin Corr. 1, H31 	5.0%
· Additional	Components		
7439-97-6	mercury	 Acute Tox. 2, H330 Repr. 1B, H360; STOT RE 1, H372 	0.001%
7732-18-5	Water		94.999%
· Additional	information: For the wording of the listed hazard p	hrases refer to section 16.	

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 plenty of water and provide fresh air. Call for a doctor immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)



Printing date 08.04.2019

Revision: 08.04.2019

Trade name: MERCURY A/S STANDARD

(Contd. of page 2)

• *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 extinguishing methods suitable to surrounding conditions.
- 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. • *Methods and material for containment and cleaning up:*

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising 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.

7 Handling and Storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about fire and explosion protection: 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 container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

(Contd. on page 4)

[—] AU



Printing date 08.04.2019

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Trade name: MERCURY A/S STANDARD

	(Contd. of page 3)
	rol parameters
-	dients with limit values that require monitoring at the workplace:
	-37-2 Nitric Acid
NES	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5.2 mg/m ³ , 2 ppm
WES	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5.2 mg/m ³ , 2 ppm
Addit	ional information: The lists valid during the making were used as basis.
Expo	sure controls
	onal protective equipment:
	ral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	diately remove all soiled and contaminated clothing
	hands before breaks and at the end of work.
	l contact with the eyes.
	l contact with the eyes and skin.
	iratory protection:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use ontained respiratory protective device.
	ction of hands:
In State	Protective gloves
Select	love material has to be impermeable and resistant to the product/ the substance/ the preparation. tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The so varies of the	rial of gloves election of the suitable gloves does not only depend on the material, but also on further marks of quality and s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance glove material can not be calculated in advance and has therefore to be checked prior to the application. tration time of glove material
The e obser	exact break trough time has to be found out by the manufacturer of the protective gloves and has to be
	Tightly sealed goggles

9 Physical and Chemical Properties

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

Liquid

(Contd. on page 5)

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Trade name: MERCURY A/S STANDARD

		(Contd. of page
Colour:	Transparent	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	$\theta \circ C$	
Initial boiling point and boiling range	2: 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 •C:	23 hPa	
Density at 20 °C:	l g/cm ³	
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/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	95.0 %	
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.

(Contd. on page 6)

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Trade name: MERCURY A/S STANDARD

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation Strong caustic effect on skin and mucous membranes.
- · Serious eye damage/irritation
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- Respiratory or skin sensitisation No sensitising effects known.

• Additional toxicological information:

- The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- Corrosive

Irritant

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

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour 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 sewage water or drainage ditch undiluted or unneutralised.

- · 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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AU



*

according to WHS Regulations

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Trade name: MERCURY A/S STANDARD

(Contd. of page 6)

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADG, IMDG, IATA	UN3264
UN proper shipping name	
ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O
	(Nitric Acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O (Nitric Acid)
Transport hazard class(es)	(inite Acid)
-	
ADG	
8	
Class	8 (C1) Corrosive substances.
Label	8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8 Corrosive substances.
	0
Packing group ADG, IMDG, IATA	111
	111
Environmental hazards:	No
Marine pollutant:	
Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler): EMS Number:	80 F-A,S-B
Segregation groups	Г-А,S-В Acids
	A
Stowage Category	
Stowage Category Stowage Code	SW2 Clear of living quarters.



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Revision: 08.04.2019

Trade name: MERCURY A/S STANDARD

(Contd. of page 7
5L
Code: El
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
3
Ε
5L
Code: El
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

15 Regulatory information

·Safety, health and environmental regulations/legislation specific for the substance or mixture			
7732-18-5	Water		94.999%
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1, H314	5.0%
7439-97-6	mercury	 Acute Tox. 2, H330 Repr. 1B, H360; STOT RE 1, H372 	0.001%

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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.

· Waterhazard 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

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⁻ AU



Printing date 08.04.2019

Revision: 08.04.2019

Trade name: MERCURY A/S STANDARD

(Contd. of page 8) · Relevant phrases H272 May intensify fire; oxidiser. H314 Causes severe skin burns and eye damage. H330 Fatal if inhaled. H360 May damage fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. · 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 IATA: International Air Transport Association 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids – Category 2 Skin Corr. 1: Skin corrosion/irritation - Category 1 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 * * Data compared to the previous version altered.



Printing date 08.04.2019

Revision: 08.04.2019

Hazardous according to criteria of Australian Safety and Compensation Council.

Trade name: Environmental Standard Custom 3 Article number: N9307807 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. 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 ———————————————————————————————————	Product iden	r	
Shelton, Connecticut 06484 USA CustomerCareUS@perkinelmer.com 203-925-4600 	Trade name: Article numb Relevant iden No further rel	vironmental Standard Custom 3 N9307807 ed uses of the substance or mixture and uses advised against unt information available.	
710 Bridgeport Avenue Shelton, Connecticut 06484 USA CustomerCareUS@perkinelmer.com 203-925-4600 			
Glen Waverley Melbourne VIC 3150 Australia 1-800-033-391 ausales@perkinelmer.com Emergency telephone number: CHEMTREC (within US) 800-424-9300 CHEMTREC (from outside US) +1 703-527-3887 (call collect)	710 Bridgepo Shelton, Conr CustomerCar	lvenue icut 06484 USA	
Lvl 2, Bldg 5, Brandon Office Park 530-540 Springvale Road Glen Waverley Melbourne VIC 3150 Australia 1-800-033-391 ausales@perkinelmer.com Emergency telephone number: CHEMTREC (within US) 800-424-9300 CHEMTREC (from outside US) +1 703-527-3887 (call collect) CHEMTREC (within AU) +(61)-290372994 Hazard(s) Identification	Supplier/Loco		
	Lvl 2, Bldg 5, 530-540 Sprin Glen Waverle Melbourne VIC 3150 Australia 1-800-033-39 ausales@peri Emergency te CHEMTREC CHEMTREC	andon Office Park ale Road Hemer.com hone number: thin US) 800-424-9300 om outside US) +1 703-527-3887 (call collect)	
Classification of the substance or mixture	Hazard(s)	ntification	
		the substance or mixture	

· Label elements

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms GHS07

· Signal word Warning

(Contd. on page 2)

[–] AU



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Revision: 08.04.2019

Trade name: Environmental Standard Custom 3

(Contd. of page 1) · Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements P264 Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. P280 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. *P332+P313* If skin irritation occurs: Get medical advice/attention. *P337+P313* If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. • 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 and Information on Ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
7697-37-2 Nitric Acid	Ox. Liq. 2, H2 Skin Corr. 1, H	72 1314 2.0%
· Additional Components		
7440-29-1 thorium		0.0001%
7440-61-1 uranium	 	0.0001%
7440-42-8 boron	() Acute Tox. 4, H302	0.0001%
7732-18-5 Water		97.9997%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

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.

(Contd. on page 3)



Printing date 08.04.2019 Revision: 08.04.2019

Trade name: Environmental Standard Custom 3

(Contd. of page 2)

• *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 extinguishing methods suitable to surrounding conditions.
- 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).
- · 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 No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: 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 container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- Control parameters

· Ingredients with	limit values that	reauire monit	oring at the	workplace:
0		1		···· T ···· ·

- 7697-37-2 Nitric Acid
- NES Short-term value: 10 mg/m³, 4 ppm
- Long-term value: 5.2 mg/m³, 2 ppm
- WES Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm

(Contd. on page 4)



· Flammability (solid, gas):

according to WHS Regulations

Printing date 08.04.2019 *Revision:* 08.04.2019 Trade name: Environmental Standard Custom 3 (Contd. of page 3) • Additional information: The lists valid during the making 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 Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · Respiratory protection: Not required. · 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 9 Physical and Chemical Properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Colour: Transparent · Odour: Characteristic • Odour threshold: Not determined. Not determined. · pH-value: · Change in condition Undetermined. *Melting point/freezing point:* Initial boiling point and boiling range: 100 °C · Flash point: Not applicable.

Not applicable.

(Contd. on page 5)



Printing date 08.04.2019

Revision: 08.04.2019

Trade name: Environmental Standard Custom 3

		(Contd. of page 4
· Decomposition temperature:	Not determined.	
• Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard. Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
• Vapour 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/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	98.0 %	
• 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.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.

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Trade name: Environmental Standard Custom 3

• Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12 Ecological Information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· ADG, IMDG, IATA	UN3264
· UN proper shipping name	
ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (Nitric Acid)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (Nitric Acid)



according to WHS Regulations

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	(Contd. of page
Transport hazard class(es)	
ADG	
1 Alexandree	
Class Label	8 (C1) Corrosive substances. 8
	0
IMDG, IATA	
V	
- Class	8 Corrosive substances.
Label	8
Packing group	
ADG, 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 Class of living an extension
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II	
and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
Tuguanout astacom	Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 E
	L
IMDG Limited quantities (LO)	57
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per inner packaging: 50 ml Maximum net quantity per outer packaging: 1000 ml



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Trade name: Environmental Standard Custom 3

· UN ''Model Regulation'':

(Contd. of page 7) UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,

N.O.S. (NITRIC ACID), 8, III

15 Regulatory information

· Safety, hea	· Safety, health and environmental regulations/legislation specific for the substance or mixture		
7732-18-5	Water		97.9997%
7697-37-2	Nitric Acid	� Ox. Liq. 2, H272 ↔ Skin Corr. 1, H314	2.0%
7440-61-1	uranium	 ↔ Acute Tox. 2, H300; Acute Tox. 2, H330 ♦ STOT RE 2, H373 	0.0001%

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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.

• Waterhazard 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· Relevant phrases

H272 May intensify fire; oxidiser.
H300 Fatal if swallowed.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.

· 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)

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AU



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Trade name: Environmental Standard Custom 3

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AU

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 IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids – Category 2 Skin Corr. 1: Skin corrosion/irritation – Category 1 Skin Irrit. 2: Skin corrosion/irritation – Category 2A * Data compared to the previous version altered.



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Hazardous according to criteria of Australian Safety and Compensation Council.

Product identifier		
<i>Trade name: STD INTERNAL ST</i> <i>Article number: N9308592</i>	stance or mixture and uses advised against ailable.	
Details of the supplier of the safety Manufacturer/Supplier:	v data sheet	
PerkinElmer, Inc. 710 Bridgeport Avenue Shelton, Connecticut 06484 USA CustomerCareUS@perkinelmer.co 203-925-4600	m	
Supplier/Local:	-	
PerkinElmer Australia Lvl 2, Bldg 5, Brandon Office Park 530-540 Springvale Road Glen Waverley Melbourne VIC 3150 Australia 1-800-033-391 ausales@perkinelmer.com Emergency telephone number: CHEMTREC (within US) 800-424 CHEMTREC (from outside US) +1 CHEMTREC (within AU) +(61)-29	-9300 703-527-3887 (call collect)	
Hazard(s) Identification		
Classification of the substance or t	nixture	
Skin Irrit. 2 H315 Causes skin irr	ritation.	

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

• Hazard pictograms GHS07

· Signal word Warning

(Contd. on page 2)

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Trade name: STD INTERNAL STOCK SOLN 300X/D

(Contd. of page 1) · Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements P264 Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. P280 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. *P332+P313* If skin irritation occurs: Get medical advice/attention. *P337+P313* If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. • 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 and Information on Ingredients

· Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous	components:	
7697-37-2	Nitric Acid Ox. Liq. 2, H2	272 2.0% H314
· Additional	Components	
7440-20-2	Scandium from Sacndium Oxide	0.01%
7440-56-4	Germanium from Ammonium hexafluorogermanate(IV)	0.005%
7440-27-9	terbium	0.0001%
7440-74-6	Indium	0.0001%
7440-16-6	rhodium	0.0001%
7732-18-5	Water	97.9847%
Additional	information. For the wording of the listed hereard phrases refer to section 16	

Additional information: For the wording of the listed hazard phrases refer to section 16.

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.

(Contd. on page 3)

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(Contd. of page 2)

Trade name: STD INTERNAL STOCK SOLN 300X/D

• *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 extinguishing methods suitable to surrounding conditions.
- 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: 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.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

· Handling:

• Precautions for safe handling No special precautions are necessary if used correctly.

- Information about fire and explosion protection: 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 container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see item 7.

• Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7697-37-2 Nitric Acid

NES Short-term value: 10 mg/m³, 4 ppm

Long-term value: 5.2 mg/m³, 2 ppm

WES Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm

(Contd. on page 4)

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Printing date 08.04.2019

Revision: 08.04.2019

(Contd. of page 3)

Trade name: STD INTERNAL STOCK SOLN 300X/D

• Additional information: The lists valid during the making 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
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Respiratory protection: Not required.
- 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

Information on basic physical and of General Information	chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Dark brown	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling ra	ange: 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	



Printing date 08.04.2019

Revision: 08.04.2019

Trade name: STD INTERNAL STOCK SOLN 300X/D

		(Contd. of page 4
Decomposition temperature:	Not determined.	
• Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard. Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· 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/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	98.0 %	
• 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:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.

(Contd. on page 6)



Printing date 08.04.2019

Revision: 08.04.2019

(Contd. of page 5)

Trade name: STD INTERNAL STOCK SOLN 300X/D

• Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

12 Ecological Information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- *Persistence and degradability No further relevant information available.*
- · Behaviour 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADG, IMDG, IATA	UN3264
UN proper shipping name	
ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O (Nitric Acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (Nitric Acid)
Transport hazard class(es)	
ADG	
Class	8 (C1) Corrosive substances.



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Trade name: STD INTERNAL STOCK SOLN 300X/D

	(Contd. of page	
Label	8	
IMDG, IATA		
0		
Class	8 Corrosive substances.	
Label	8	
Packing group		
ADG, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Corrosive substances.	
Danger code (Kemler):	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 Marpol	
and the IBC Code	Not applicable.	
Transport/Additional information:		
ADG		
Limited quantities (LQ)	5L	
Excepted quantities (EQ)	Code: E1	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
Transport category	3	
Tunnel restriction code	E	
IMDG		
Limited quantities (LQ)	5L	
Excepted quantities (EQ)	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, INORGANI	
	N.O.S. (NITRIC ACID), 8, III	

Safety, health and environmental regulations/legislation specific for the substance or mixture				
7732-18-5	Water	97.984		
7697-37-2	Nitric Acid Ox. Li	iq. 2, H272 2.09 Corr. 1, H314		
7440-20-2	Scandium from Sacndium Oxide	0.01		



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Trade name: STD INTERNAL STOCK SOLN 300X/D

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· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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.

· Waterhazard 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 Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· Relevant phrases

H272 May intensify fire; oxidiser. H314 Causes severe skin burns and eye damage.

· 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 IATA: International Air Transport Association

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)
- PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Liq. 2: Oxidizing liquids – Category 2 Skin Corr. 1: Skin corrosion/irritation – Category 1

Skin Corr. 1. Skin corrosion/irritation – Category 1 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.