

Printing date 09/20/2018 Review date 09/20/2018

## 1 Identification

- · Product identifier
- · Trade name: STD AS Spike Sample 125ml
- · Article number N9300230
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer, Inc.

710 Bridgeport Avenue

Shelton, Connecticut 06484 USA

CustomerCareUS@perkinelmer.com

203-925-4600

· Emergency telephone number:

CHEMTREC (within US) 800-424-9300

CHEMTREC (from outside US) +1 703-527-3887 (call collect)

CHEMTREC (within AU) +(61)-290372994

## 2 Hazard(s) identification

· Classification of the substance or mixture



Health hazard

Carc. 1A H350 May cause cancer.



Corrosion

Skin Corr. 1B 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 labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS05, GHS08
- · Signal word Danger
- · Hazard-determining components of labeling:

Nitric Acid

Arsenic

· Hazard statements

H314 Causes severe skin burns and eye damage.

H350 May cause cancer.

· Precautionary statements

*P201 Obtain special instructions before use.* 

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

P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling.

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

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*P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.* 

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

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

P321 Specific treatment (see on this label).P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

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

# 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous	components:		
7697-37-2	Nitric Acid	© Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%
7440-38-2	Arsenic	Acute Tox. 3, H301; Acute Tox. 3, H331 Carc. 1A, H350	0.1%
Additional	Components		
87-69-4	(+)-tartaric acid		0.15%
	0 Eye Irrit. 2A, H319		
7440-39-3			0.1%
	🚱 Water-react. 2, H261		

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		(Contd. of pag
7440-36-0		0.1%
7782-49-2	selenium  ♠ Acute Tox. 3, H301; Acute Tox. 3, H331 ♦ STOT RE 2, H373	0.1%
7440-28-0	thallium  Acute Tox. 2, H300; Acute Tox. 2, H330  STOT RE 2, H373	0.1%
7429-90-5	aluminium	0.1%
7664-39-3	Hydrofluoric acid Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1A, H314	0.1%
7439-92-1	lead  Acute Tox. 3, H301  Carc. 2, H351; Repr. 1A, H360-H362  Acute Tox. 4, H332	0.01%
1317-35-7	trimanganese tetraoxide	0.019
7440-02-0	nickel	0.01%
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. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.019
7440-43-9	cadmium (non-pyrophoric)	0.01%
7440-22-4	silver	0.019
7440-47-3	chromium	0.019
7440-62-2	vanadium	0.019
7440-48-4	cobalt  Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317	0.019
7440-50-8	copper	0.019
7439-89-6		0.019
7440-66-6	zinc  Water-react. 2, H261	0.005
7732-18-5	· ·	94.035

# 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.

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· 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: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:

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

*Use neutralizing agent.* 

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

7697-37-2 Nitric Acid	0.16 ppm
87-69-4 (+)-tartaric acid	$1.6 \text{ mg/m}^3$
7440-39-3 barium	$1.5 \text{ mg/m}^3$
7440-36-0 antimony	$1.5 \text{ mg/m}^3$
7782-49-2 selenium	$0.6 \text{ mg/m}^3$
7440-28-0 thallium	$0.06 \text{ mg/m}^{3}$
7440-38-2 Arsenic	$1.5 \text{ mg/m}^3$
7439-92-1 lead	$0.15 \text{ mg/m}^3$
1317-35-7 trimanganese tetraoxide	$4.2 mg/m^3$
7440-02-0 nickel	$4.5 mg/m^3$

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		(Contd. of page
7440-41-7 b	eryllium	0.0023 mg/m
7440-43-9 c	admium (non-pyrophoric)	$0.10 \text{ mg/m}^3$
7440-22-4 s	ilver	$0.3 \text{ mg/m}^3$
7440-47-3 c	hromium	$1.5 \text{ mg/m}^3$
7440-62-2 v	anadium	$3 \text{ mg/m}^3$
7440-48-4 c	obalt	$0.18 \text{ mg/m}^3$
7440-50-8 c	opper	$3 \text{ mg/m}^3$
7439-89-6 i	ron	$3.2 \text{ mg/m}^3$
7440-66-6 z	inc	6 mg/m³
· PAC-2:		
7697-37-2 N	litric Acid	24 ppm
	+)-tartaric acid	$17 \text{ mg/m}^3$
7440-39-3 b		$180 \text{ mg/m}^3$
7440-36-0 a		$13 \text{ mg/m}^3$
7782-49-2 s	·	$6.6 \text{ mg/m}^3$
7440-28-0 t		$3.3 \text{ mg/m}^3$
7440-38-2 A		$17 \text{ mg/m}^3$
7439-92-1 1		$120 \text{ mg/m}^3$
	rimanganese tetraoxide	$6.9 \text{ mg/m}^3$
7440-02-0 n		$50 \text{ mg/m}^3$
7440-41-7 b		0.025  mg/m
	admium (non-pyrophoric)	$0.76 \text{ mg/m}^3$
7440-22-4 s	, , , , , , , , , , , , , , , , , , , ,	$170 \text{ mg/m}^3$
7440-47-3 c	hromium	17 mg/m³
7440-62-2 v	anadium	$5.8 \text{ mg/m}^3$
7440-48-4 c	obalt	$2 mg/m^3$
7440-50-8 c	opper	33 mg/m <sup>3</sup>
7439-89-6 i	**	35 mg/m <sup>3</sup>
7440-66-6 z	inc	21 mg/m³
· PAC-3:		
7697-37-2 N	Vitric Acid	92 ppm
	+)-tartaric acid	$\frac{100 \text{ mg/m}^3}{}$
7440-39-3 b	·	1,100 mg/m
7440-36-0 a		$80 \text{ mg/m}^3$
7782-49-2 s	<u> </u>	$40 \text{ mg/m}^3$
7440-28-0 t		$\frac{20 \text{ mg/m}^3}{20 \text{ mg/m}^3}$
7440-38-2 A		$\frac{20 \text{ mg/m}^3}{100 \text{ mg/m}^3}$
7439-92-1 1		$700 \text{ mg/m}^3$
	rimanganese tetraoxide	$41 \text{ mg/m}^3$
7440-02-0 n	<del>-</del>	$99 \text{ mg/m}^3$



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	(Contd. of page
7440-41-7 beryllium	$0.1 \text{ mg/m}^3$
7440-43-9 cadmium (non-pyrophoric)	$4.7 \text{ mg/m}^3$
7440-22-4 silver	990 mg/m³
7440-47-3 chromium	99 mg/m³
7440-62-2 vanadium	$35 \text{ mg/m}^3$
7440-48-4 cobalt	$20 \text{ mg/m}^3$
7440-50-8 copper	$200 \text{ mg/m}^3$
7439-89-6 iron	150 mg/m³
7440-66-6 zinc	120 mg/m³

# 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

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

· Components with limi	t values that require	monitoring at the workplace:
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#### 7697-37-2 Nitric Acid

PEL	Long-term value: 5 mg/m³, 2 ppm
REL	Short-term value: 10 mg/m³, 4 ppm
	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm
TLV	Short-term value: 10 mg/m³, 4 ppm
	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm

## 7440-38-2 Arsenic

PEL	Long-term value: 0.5* 0.01** mg/m³
	as As; *organic**inorg. compds.; 29 CFR 1910.1018
	Ceiling limit value: 0.002 mg/m³ as As; 15min; See Pocket Guide App. A
	as As; 15min; See Pocket Guide App. A

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TLV Long-term value: 0.01 mg/m<sup>3</sup> as As; BEI

Ingredients with biological limit values:

#### 7440-38-2 Arsenic

BEI 35 μg As/L

Medium: urine

Time: end of workweek

Parameter: Inorganic arsenic plus methylated metabolites (background)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles or safety glasses

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Information on basis abusisal 1	homical proporties
Information on basic physical and c General Information	nemical properties
Appearance:	
Form:	Liquid
Color:	Transparent
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	- W
Water:	Fully miscible.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Water:	94.0 %
VOC content:	0.00 %
Solids content:	0.2 %
Other information	No further relevant information available.

# 10 Stability and reactivity

· Reactivity No further relevant information available.

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- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- · on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

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

· Carcinogenic categories

· IARC (Inte	ernational Agency for Research on Cancer)	
7782-49-2	selenium	3
7440-38-2	Arsenic	1
7439-92-1	lead	2B
7440-02-0	nickel	2B
7440-41-7	beryllium	1
7440-43-9	cadmium (non-pyrophoric)	1
7440-47-3	chromium	3
7440-48-4	cobalt	2B
· NTP (Nati	onal Toxicology Program)	
7440-38-2	Arsenic	K
7439-92-1	lead	R
7440-02-0	nickel	R
7440-41-7	beryllium	K
7440-43-9	cadmium (non-pyrophoric)	K
7440-48-4	cobalt	R
· OSHA-Ca	(Occupational Safety & Health Administration)	<u> </u>
7440-38-2	Arsenic	
		(Contd. on page 10

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7440-43-9 cadmium (non-pyrophoric)

# 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Dispose of container and materials in accordance with local, regional and national regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name	
$\cdot DOT$	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, Hydroge
	fluoride)
· ADR	3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Aci
	Hydrogen fluoride)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Aci
	HYDROGEN FLUORIDE)

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	(Contd. of page
Transport hazard class(es)	
DOT	
THENSOL	
0	
Class	8 Corrosive substances
Label	8
ADR	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
<b>V</b>	0 (61) 6
Class Label	8 (C1) Corrosive substances 8
	0
IMDG, IATA	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler): EMS Number:	80 F-A,S-B
EMS Number: Segregation groups	г-A,S-D Acids
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml

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· IMDG
· Limited quantities (LQ)
· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(NITRIC ACID, HYDROGEN FLUORIDE), 8, III

Safety, health and environmental regulations/legislation specific for the substance or mixture						
7732-18-5	0 0	anon specific for the substance of mature	94.035%			
7697-37-2	Nitric Acid	� Ox. Liq. 2, H272 ↔ Skin Corr. 1A, H314	5.0%			
87-69-4	(+)-tartaric acid	<b>♦</b> Eye Irrit. 2A, H319	0.15%			
Sara						
Section 35.	5 (extremely hazardous substances):					
7697-37-2	Nitric Acid					
Section 31.	3 (Specific toxic chemical listings):					
7697-37-2	Nitric Acid					
7440-39-3						
7440-36-0	antimony					
7782-49-2	selenium					
7440-28-0	thallium					
7429-90-5	aluminium					
7440-38-2	Arsenic					
7439-92-1	lead					
1317-35-7	trimanganese tetraoxide					
7440-02-0	nickel					
7440-41-7	beryllium					
7440-43-9	cadmium (non-pyrophoric)					
7440-22-4	silver					
7440-47-3	chromium					
7440-62-2	vanadium					
7440-48-4	cobalt					
7440-50-8						
7440-66-6	zinc					
TSCA (Tox	cic Substances Control Act):					
7697-37-2	Nitric Acid					
87-69-4	(+)-tartaric acid					



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		(Contd. of mage 1
7440-39-3	barium	(Contd. of page 1
7440-36-0		
7782-49-2	· · · · · · · · · · · · · · · · · · ·	
7440-28-0		
7429-90-5		
7440-38-2		
7439-92-1	lead	
1317-35-7	trimanganese tetraoxide	
7440-02-0	_	
7440-41-7	beryllium	
	cadmium (non-pyrophoric)	
7440-22-4	silver	
7440-47-3	chromium	
7440-62-2	vanadium	
7440-48-4	cobalt	
7440-50-8	copper	
7439-89-6	iron	
7440-66-6	zinc	
7732-18-5	Water	
· Proposition	1 65	
· Chemicals	known to cause cancer:	
7440-38-2	Arsenic	
7439-92-1	lead	
7440-02-0	nickel	
7440-41-7	beryllium	
7440-43-9	cadmium (non-pyrophoric)	
7440-48-4	cobalt	
· Chemicals	known to cause reproductive toxicity for females:	
7439-92-1	lead	
· Chemicals	known to cause reproductive toxicity for males:	
7439-92-1		
7440-43-9	cadmium (non-pyrophoric)	
· Chemicals	known to cause developmental toxicity:	
7439-92-1		
	cadmium (non-pyrophoric)	
	nity categories ronmental Protection Agency)	
7440-39-3		D, CBD(inh), NL(oral)
7782-49-2		D, CBD(inn), NL(orai)
//04-49-2	scientum	(Contd. on page 1



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7440-38-2	Arsenic	(Contd. of pa
7439-92-1		B2
	trimanganese tetraoxide	D
7440-41-7		B1, K/L(inh), CBD(o
	cadmium (non-pyrophoric)	B1, K/L(um), CBD(0
7440-22-4	· • • • • • • • • • • • • • • • • • • •	D
7440-22-4		D   D
7440-47-3		D   D
7440-56-6		D, I, II
		D, 1, 11
,	shold Limit Value established by ACGIH)	
7440-39-3	barium	
7429-90-5	aluminium	
7440-38-2	Arsenic	
7439-92-1	lead	
7440-02-0	nickel	
7440-41-7	beryllium	
7440-43-9	cadmium (non-pyrophoric)	
7440-47-3	chromium	
7440-48-4	cobalt	
NIOSH-Ca	ı (National Institute for Occupational Safety and H	ealth)
7440-38-2	Arsenic	
7440-02-0	nickel	
	beryllium	

- · National regulations:
- · Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

## · Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 16 Other information

#### Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that

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Trade name: STD - AS Spike Sample - 125ml

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these are the only hazards which exist. PerkinElmer shall not be held liable for any damage resulting from handling or from contact with the product.

· Department issuing SDS: Environmental, Health and Safety

· Contact:

Within the USA: 1-(800)-762-4000 Outside the USA: 1-(203)-712-8488

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Ox. Liq. 2: Oxidizing liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Carc. 1A: Carcinogenicity - Category 1A

\* Data compared to the previous version altered.