

Printing date 07/28/2021 Review date 07/28/2021

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.



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 = 3Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



*3 *Health* = *3

Fire = 0

REACTIVITY 0 Reactivity = 0

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
- $\cdot \textit{Description:} \ \textit{Mixture of the substances listed below with nonhazardous additions}.$

· Hazardous	components:	
7697-37-2	Nitric Acid	5.0%
	Ox. Liq. 2, H272 Skin Corr. 1A, H314	
7440-28-0		0.1%
	Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 4, H413	
	(Contd. o	n page 3

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		(Contd. of page
7440-36-0	antimony	0.1
	♠ Acute Tox. 3, H311; Acute Tox. 3, H331	
7440-38-2	Arsenic	0.1
	♠ Acute Tox. 3, H301; Acute Tox. 3, H331	
	& Carc. 1A, H350	
	🔖 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
7664-39-3	Hydrofluoric acid	0.1
	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 Skin Corr. 1A, H314	
7782-49-2	selenium	0.1
	♠ Acute Tox. 3, H301; Acute Tox. 3, H331	
	♦ STOT RE 2, H373	
	Aquatic Chronic 4, H413	
Additional	Components	
7732-18-5	<u> </u>	94.035
87-69-4	(+)-tartaric acid	0.15%
07 07 1	♦ Eye Irrit. 2A, H319	
7429-90-5	aluminium	0.1%
7440-39-3		0.1%
/440-39-3	L	0.170
1217 25 7	Water-react. 2, H261	0.010
	trimanganese tetraoxide	0.01%
7439-89-6	L	0.01%
	♠ Acute Tox. 2, H300	
7439-92-1	lead	0.01%
	♦ Carc. 2, H351; Repr. 1A, H360	
7440-02-0	nickel	0.01%
	♦ Carc. 2, H351; STOT RE 1, H372	
	Skin Sens. 1, H317	
7440-22-4	silver	0.01%
7440-41-7	hervllium	0.01%
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>♦ Acute Tox. 3, H301; Acute Tox. 2, H330</i>	
	& Carc. 1B, H350; STOT RE 1, H372	
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7440-43-9	cadmium	0.01%
	♠ Acute Tox. 3, H301; Acute Tox. 2, H330	
	Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
7440-47-3	chromium	0.01%
7440-48-4		0.01%
, , ,	♦ Resp. Sens. 1, H334; Carc. 2, H351	
	Skin Sens. 1, H317	
	Aquatic Chronic 4, H413	
7440-50-8		0.01%
		(Contd. on page



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	(Cor	ntd. of page 3)
7440-62	vanadium	0.01%
7440-66-0		0.005%
	Pyr. Sol. 1, H250; Water-react. 1, H260 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

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.

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

· PAC-1:		
7697-37-2 N	litric Acid	0.16 ppm

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97 60 1	(+)-tartaric acid	(Contd. of page
		1.6 mg/m^3
7440-28-0 t		0.06 mg/m^3
	•	1.5 mg/m^3
7440-38-2		1.5 mg/m^3
7440-39-3		1.5 mg/m^3
7782-49-2 s		0.6 mg/m^3
	rimanganese tetraoxide	4.2 mg/m³
7439-89-6 i		3.2 mg/m^3
7439-92-1 l		0.15 mg/m^3
7440-02-0 r		4.5 mg/m^3
7440-22-4 s		0.3 mg/m^3
7440-41-7 l	· ·	0.0023 mg/m
7440-43-9		0.10 mg/m^3
7440-47-3		1.5 mg/m^3
7440-48-4		0.18 mg/m^3
7440-50-8	opper	$3 mg/m^3$
7440-62-2 1	anadium	3 mg/m^3
7440-66-6 z	inc	6 mg/m³
PAC-2:		
7697-37-2	Vitric Acid	24 ppm
87-69-4 ((+)-tartaric acid	17 mg/m³
7440-28-0 t	hallium	3.3 mg/m^3
7440-36-0 d	entimony	13 mg/m³
7440-38-2	Irsenic	17 mg/m³
7440-39-3 l	parium	180 mg/m^3
7782-49-2 s	elenium	6.6 mg/m^3
1317-35-7 t	rimanganese tetraoxide	6.9 mg/m^3
7439-89-6 i	ron	35 mg/m ³
7439-92-1 l	ead	120 mg/m^3
7440-02-0 n	ickel	50 mg/m^3
7440-22-4 s	ilver	170 mg/m^3
7440-41-7		0.025 mg/m
7440-43-9	•	0.76 mg/m^3
7440-47-3		17 mg/m^3
7440-48-4		$2 mg/m^3$
7440-50-8		33 mg/m^3
7440-62-2		5.8 mg/m ³
7440-66-6		$\frac{21 \text{ mg/m}^3}{21 \text{ mg/m}^3}$
		21g/m
PAC-3:	V:4: - A -: J	loa .
7697-37-2	vuric Acia	92 ppm



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87 60 <i>1</i>	(+)-tartaric acid	(Contd. of page $\frac{100 \text{ mg/m}^3}{\text{mg}}$
7440-28-0	· ·	$\frac{100 \text{ mg/m}}{20 \text{ mg/m}^3}$
7440-36-0		80 mg/m^3
7440-38-2	•	100 mg/m^3
7440-39-3		$1,100 \text{ mg/m}^2$
7782-49-2	selenium	40 mg/m³
1317-35-7	trimanganese tetraoxide	41 mg/m³
7439-89-6	iron	150 mg/m^3
7439-92-1	lead	700 mg/m^3
7440-02-0	nickel	99 mg/m³
7440-22-4	silver	990 mg/m³
7440-41-7	beryllium	0.1 mg/m^3
7440-43-9	cadmium	4.7 mg/m^3
7440-47-3	chromium	99 mg/m³
7440-48-4		20 mg/m³
7440-50-8		200 mg/m³
7440-62-2		35 mg/m^3
7440-66-6	zinc	120 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: 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 limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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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	
Long-term value: 5 mg/m³, 2 ppm	
TLV Short-term value: 10 mg/m³, 4 ppm	
Long-term value: 5.2 mg/m³, 2 ppm	
7440-38-2 Arsenic	
PEL Long-term value: $0.5*0.01**mg/m^3$	
as As; *organic**inorg. compds.; 29 CFR 1910.1018	
REL Ceiling limit value: 0.002 mg/m ³	
as As; 15min; See Pocket Guide App. A	
TLV Long-term value: 0.01 mg/m³ as As; BEI	
7664-39-3 Hydrofluoric acid	
PEL Long-term value: 1* mg/m³, 3 ppm	
as F, *sulfuric acid	
REL Long-term value: 2.5 mg/m³, 3 ppm	
Ceiling limit value: 5* mg/m³, 6* ppm *15-min, as F	
TLV Long-term value: 0.41 mg/m³, 0.5 ppm	
Ceiling limit value: 1.64 mg/m³, 2 ppm	
as F; Skin; BEI	
7782-49-2 selenium	
PEL Long-term value: 0.2 mg/m³	
as Se	
REL Long-term value: 0.2 mg/m³	
as Se	
TLV Long-term value: 0.2 mg/m³	
as Se	
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)	
7664-39-3 Hydrofluoric acid	
BEI 3 mg/g creatinine	
Medium: urine	
Time: prior to shift	
Parameter: Flourides (background)	
10 mg/g suggining	
10 mg/g creatinine Medium: urine	
Time: end of shift	
Parameter: Flourides (background)	
1 arameter. 1 tour taes (ouchground)	(Contd. on pa



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- · 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

9 Physical and chemical properties

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

Form: Liquid
Color: Transparent
Odor: Characteristic
Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

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Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard. Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density:	Not determined.	
Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
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.
- · 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.

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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	rnational Agency for Research on Cancer)	
7440-38-2	Arsenic	1
7782-49-2	selenium	3
7439-92-1	lead	2B
7440-02-0	nickel	2B
7440-41-7	beryllium	1
7440-43-9	cadmium	1
7440-47-3	chromium	3
7440-48-4	cobalt	2B
· NTP (Natio	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	K
7440-48-4	cobalt	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
7440-38-2	Arsenic	
7440-43-9	cadmium	

12 Ecological information

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

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- · 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.

Transport		

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

- · Transport hazard class(es)
- $\cdot DOT$





Class 8 Corrosive substances

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Label	8
ADR	
<u> </u>	
•	
Class	8 (C1) Corrosive substances
Label	8
IMDG	
AV.	
Class	8 Corrosive substances
Label	8
IATA	
^	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	: 80
EMS Number:	F-A,S-B
Segregation groups	Acids B
Stowage Category 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:	11
DOT Quantity limitations	On passenger aircraft/rail: 5 L
Quantity untumous	On cargo aircraft only: 60 L
Remarks:	Special marking with the symbol (fish and tree).

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· ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
Excepted quantities (\widetilde{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, INORGANIC, N.O.
	(NITRIC ACID, HYDROGEN FLUORIDE), 8, III

Safety, hea	Safety, health and environmental regulations/legislation specific for the substance or mixture				
7732-18-5	9		94.035%		
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%		
87-69-4	(+)-tartaric acid	♦ 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):				
	Nitric Acid				
7429-90-5	aluminium				
7440-28-0	thallium				
7440-36-0	antimony				
7440-38-2	Arsenic				
7440-39-3	barium				
7782-49-2	selenium				
1317-35-7	trimanganese tetraoxide				
7439-92-1					
7440-02-0	nickel				
7440-22-4	silver				
7440-41-7	· · ·				
7440-43-9	cadmium				
7440-47-3	chromium				
7440-48-4					
7440-50-8	copper				
7440-62-2	vanadium				

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7440-66-6 zinc		
· TSCA (Toxic Substances Con	trol Act):	
7732-18-5 Water		ACTIV
7697-37-2 Nitric Acid		ACTIV
87-69-4 (+)-tartaric acid		ACTIV
7429-90-5 aluminium		ACTIV
7440-28-0 thallium		ACTIV
7440-36-0 antimony		ACTIV
7440-38-2 Arsenic		ACTIV
7440-39-3 barium		ACTIV
7782-49-2 selenium		ACTIV
1317-35-7 trimanganese tetra	aoxide	ACTIV
7439-89-6 iron		ACTIV
7439-92-1 lead		ACTIV
7440-02-0 nickel		ACTIV
7440-22-4 silver		ACTIV
7440-41-7 beryllium		ACTIV
7440-43-9 cadmium		ACTIV
7440-47-3 chromium		ACTIV
7440-48-4 cobalt		ACTIV
7440-50-8 copper		ACTIV
7440-62-2 vanadium		ACTIV
7440-66-6 zinc		ACTIV
· Hazardous Air Pollutants		
1317-35-7 trimanganese tetro	uoxide	
7439-92-1 lead		
7440-48-4 cobalt		
· Proposition 65		
· Chemicals known to cause ca	ncer:	
7440-38-2 Arsenic		
7439-92-1 lead		
7440-02-0 nickel		
7440-41-7 beryllium		
7440-43-9 cadmium		
7440-48-4 cobalt		
	maduatina tanisitu fan famalası	
7439-92-1 lead	productive toxicity for females:	
· Chemicals known to cause re	productive toxicity for males:	
7439-92-1 lead		
7440-43-9 cadmium		(Contd. on page



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(Contd. of page 14) · Chemicals known to cause developmental toxicity: 7439-92-1 lead 7440-43-9 cadmium · Cancerogenity categories · EPA (Environmental Protection Agency) 7440-38-2 Arsenic 7440-39-3 barium D, CBD(inh), NL(oral) 7782-49-2 selenium 1317-35-7 trimanganese tetraoxide \overline{D} 7439-92-1 lead *B2* 7440-22-4 silver D 7440-41-7 beryllium B1, K/L(inh), CBD(oral) 7440-43-9 cadmium B17440-47-3 chromium \overline{D} 7440-50-8 copper D7440-66-6 zinc D, I, II TLV (Threshold Limit Value established by ACGIH) 7429-90-5 aluminium A47440-38-2 Arsenic $\overline{A1}$ 7440-39-3 barium A47439-92-1 lead A37440-02-0 nickel A57440-41-7 beryllium A17440-43-9 cadmium A27440-47-3 chromium A47440-48-4 cobalt A3· NIOSH-Ca (National Institute for Occupational Safety and Health) 7440-38-2 Arsenic 7440-02-0 nickel 7440-41-7 beryllium 7440-43-9 cadmium

· National regulations:

· Information about limitation of use:

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

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

· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

(Contd. on page 16)



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Trade name: STD - AS Spike Sample - 125ml

(Contd. of page 15)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Disclaimer

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

· Department issuing SDS: Environmental, Health and Safety

· Contact:

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

· Abbreviations and acronyms:

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

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

 ${\it HMIS: Hazardous\ Materials\ Identification\ System\ (USA)}$

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Ox. Liq. 2: Oxidizing liquids - Category 2

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 1: Acute toxicity - Category 1

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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

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

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

* Data compared to the previous version altered.