

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

1 Identification

- · Product identifier
- · Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3
- · Article number N9304294
- · 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



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS07
- · Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water. P321 Specific treatment (see on this label).

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.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 0Reactivity = 0

(Contd. on page 2)



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

(Contd. of page 1)

· 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:	
87-69-4	(+)-tartaric acid	6.0%
	♦ Eye Irrit. 2A, H319	
7440-36-0		1.0%
	♦ Acute Tox. 3, H311; Acute Tox. 3, H331	
	Nitric Acid	1.0%
	Ox. Liq. 2, H272 Skin Corr. 1A, H314	
· Additional	Components	
7732-18-5	Water	92.0%

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.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

(Contd. of page 2)

- · 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.

· Protective Action Criteria for Chemicals

· PAC-1:		
87-69-4	(+)-tartaric acid	1.6 mg/m³
7440-36-0	antimony	1.5 mg/m^3
7697-37-2	Nitric Acid	0.16 ppm
· PAC-2:		
87-69-4	(+)-tartaric acid	17 mg/m³
7440-36-0	antimony	13 mg/m³
7697-37-2	Nitric Acid	24 ppm
· PAC-3:		
87-69-4	(+)-tartaric acid	100 mg/m^3
7440-36-0	antimony	80 mg/m^3
7697-37-2	Nitric Acid	92 ppm

7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: 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.

(Contd. on page 4)



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

(Contd. of page 3)

· Control parameters

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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

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

· 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.

Avoid contact with the eyes and skin. · Breathing equipment: 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 or safety glasses



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

(Contd. of page 4)

Information on basic physical and c	hemical properties	
General Information	nemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	92.0 %	
VOC content:	0.00 %	
Solids content:	7.0 %	
Other information	No further relevant information available.	



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

(Contd. of page 5)

10 Stability and reactivity

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

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

(Contd. on page 7)



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

(Contd. of page 6)

· 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.

1470			, ·
14 Trans	nort	into	rmation
1 1 1 00100		ung o	· · · · · · · · · · · · · · · · · · ·

•	UN-Number	
---	-----------	--

· DOT, ADR, IMDG, IATA

UN3264

· UN proper shipping name

 $\cdot DOT$ $\cdot ADR$ Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Nitric Acid)

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric · IMDG, IATA

Acid)

· Transport hazard class(es)

 $\cdot DOT$



· Class · Label 8 Corrosive substances

 $\cdot ADR$



· Class

·Label

8 (C1) Corrosive substances

· IMDG, IATA



· Class ·Label 8 Corrosive substances

(Contd. on page 8)



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

	(Contd. of page
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	: 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	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
2 y	On cargo aircraft only: 60 L
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 (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.
G	(NITRIC ACID), 8, III

Safety, hea	alth and environmental regulations/legislation specific for the substan	nce or mixture
7732-18-5	Water	92.0%
87-69-4	(+)-tartaric acid ♦ Eye Irrit. 2A, H319	6.0%
7440-36-0	antimony Acute Tox. 3, H311; Acute Tox. 3, H331	1.0%
Sara		
Section 35	5 (extremely hazardous substances):	
7697-37-2	Nitric Acid	
Section 31	3 (Specific toxic chemical listings):	
7440-36-0	antimony	



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

	(Contd. of pa
7697-37-2 Nitric Acid	
· TSCA (Toxic Substances Control Act):	
7732-18-5 Water	ACTI
87-69-4 (+)-tartaric acid	ACTI
7440-36-0 antimony	ACTI
7697-37-2 Nitric Acid	ACTI
Hazardous Air Pollutants	
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive a	oxicity for females:
None of the ingredients is listed.	
Chemicals known to cause reproductive t	oxicity for males:
None of the ingredients is listed.	
Chemicals known to cause developmenta	toxicity:
None of the ingredients is listed.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established	by ACGIH)
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occup	ational Safety and Health)
None of the ingredients is listed.	

- · National regulations:
- · Information about limitation of use:

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

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

16 Other information

Disclaimer

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

(Contd. on page 10)



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

Trade name: STD 1 10000 MG/L SB IN H2O/TART/TR HNO3

(Contd. of page 9)

· 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

Ox. Liq. 2: Oxidizing liquids - Category 2

Acute Tox. 3: Acute toxicity – Category 3

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

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.

USA