

Printing date 07/28/2021

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- **1** Identification
- · Product identifier
- · Trade name: STD 1 10000MG/L SB IN 20% HCL
- Article number N9304292
- · 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. STOT SE 3 H335 May cause respiratory 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-determining components of labeling:
- Hydrochloric Acid
- · Hazard statements
- H315 Causes skin irritation.

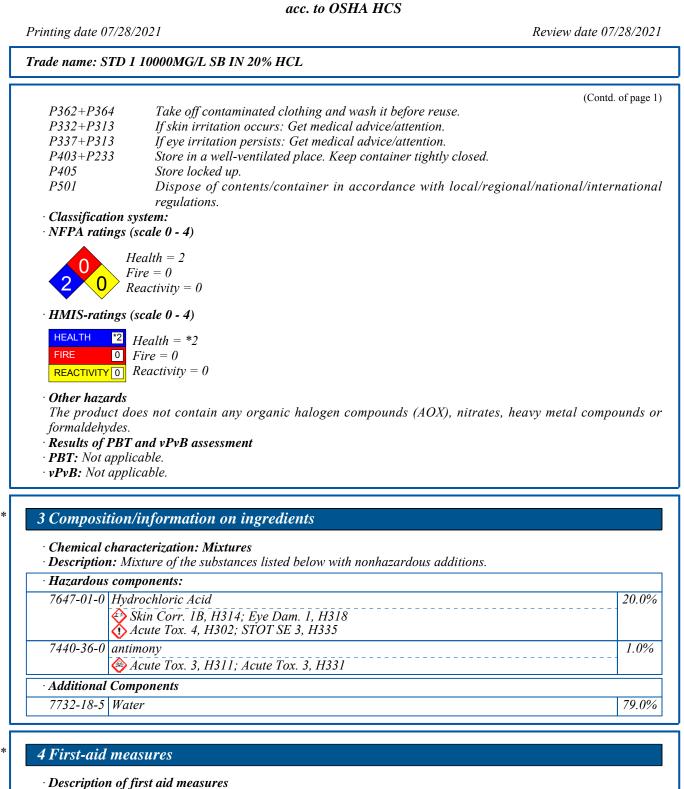
H319 Causes serious eye irritation.

- H335 May cause respiratory irritation.

Precautionary state	ements
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
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.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).

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- 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.

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• 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.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

• Environmental precautions: No special measures required.

• Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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:		
7647-01-0	Hydrochloric Acid	1.8 ppm
7440-36-0	antimony	1.5 mg/m <sup>3</sup>
· PAC-2:		
7647-01-0	Hydrochloric Acid	22 ppm
7440-36-0	antimony	13 mg/m <sup>3</sup>
· PAC-3:		
7647-01-0	Hydrochloric Acid	100 ppm
7440-36-0	antimony	80 mg/m <sup>3</sup>

## 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

• Information about protection against explosions and fires: No special measures required.

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

At this time, the remaining constituent has no known exposure limits.

#### 7647-01-0 Hydrochloric Acid

PEL Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm

REL Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm

TLV Ceiling limit value: 2.98 mg/m<sup>3</sup>, 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:

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.

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• Eye protection:



Tightly sealed goggles or safety glasses

· Information on basic physical and o	chemical properties	
· General Information		
· Appearance:	<b>T 1</b>	
Form:	Liquid	
Color: • Odor:	Dark brown 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 at 20 •C (68 •F):	1.0869 g/cm³ (9.07018 lbs/gal)	
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/wat	e <b>r):</b> Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:	79.0 %	



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VOC content:	0.00 %	
Solids content:	1.0 %	
• 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:

· LD/LC50 values that are relevant for classification:

#### 7647-01-0 Hydrochloric Acid

Oral LD50 900 mg/kg (rabbit)

- · 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)

7647-01-0 Hydrochloric Acid

### · 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.

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· Behavior in environmental systems:

· Bioaccumulative potential No further relevant information available.

• *Mobility in soil* No further relevant information available.

 $\cdot$  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:

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

· Uncleaned packagings:

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

UN-Number DOT, ADR, IMDG, IATA	UN1789	
	0111707	
UN proper shipping name DOT	Hydrochloric acid	
ADR	1789 HYDROCHLORIC ACID	
IMDG, IATA	HYDROCHLORIC ACID	
Transport hazard class(es)		
DOT		
de series corrostere 8		
Class	8 Corrosive substances	
Label	8	
ADR		



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#### Trade name: STD 1 10000MG/L SB IN 20% HCL (Contd. of page 7) · Label 8 · IMDG, IATA · Class 8 Corrosive substances · Label 8 · Packing group · DOT, ADR, IMDG, IATA Π • Environmental hazards: Not applicable. Warning: Corrosive substances · Special precautions for user • Hazard identification number (Kemler code): 80 • EMS Number: F-A, S-B· Segregation groups Acids · Stowage Category Ε · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. • Transport/Additional information: $\cdot DOT$ · Quantity limitations On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L $\cdot ADR$ • Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · IMDG · Limited quantities (LQ) lL• Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1789 HYDROCHLORIC ACID, 8, II • UN ''Model Regulation'':

Safety, health and environmental regulations/legislation specific for the substance or mixture		
7732-18-5	Water	79.0%
7647-01-0	Hydrochloric Acid Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	20.0%
7440-36-0		1.0%



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Sara     Section 355 (extremely hazardous substances):	
7647-01-0 Hydrochloric Acid	
Section 313 (Specific toxic chemical listings):     7647-01-0 Hydrochloric Acid	
7440-36-0 antimony	
• TSCA (Toxic Substances Control Act):	
- ISCA (Toxic Substances Control Act): 7732-18-5 Water	
7647-01-0 Hydrochloric Acid	ACTIV. ACTIV.
7440-36-0 antimony	ACTIV
	ACTIVI
· Hazardous Air Pollutants	
7647-01-0 Hydrochloric Acid • <b>Proposition 65</b>	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
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)	
7647-01-0 Hydrochloric Acid	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

· National regulations:

• 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.

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Department issuing SDS: Environmental, Health and Safety	
Contact:	
Within the USA: 1-(800)-762-4000	
<i>Outside the USA: 1-(203)-712-8488</i>	
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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
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	
Acute Tox. 4: Acute toxicity – Category 4	
Acute Tox. 3: Acute toxicity – Category 3	
Skin Corr. 1B: Skin corrosion/irritation – Category 1B	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
<i>Eye Irrit.</i> 2 <i>A</i> : Serious eye damage/eye irritation – Category 2 <i>A</i>	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	