

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/25/2020

Reviewed on 02/07/2020

1 Identification

- **Product identifier**
- **Trade name:** ICP-MS Interference Check
- **Article number:** ICP-MS-ICS-AB
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
High-Purity Standards
7221 Investment Drive, North Charleston, SC 29418 United States
Telephone: +1-843-767-7900
Fax: +1-843-767-7906
highpuritystandards.com
Email: info@highpuritystandards.com
- **Information department:** Product safety department

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Met. Corr.1 H290 May be corrosive to metals.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05



GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
nitric acid
hydrofluoric acid
[2H4] ammonium chloride

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Hazard statements

- H290 May be corrosive to metals.
- H302+H312 Harmful if swallowed or in contact with skin.
- H314 Causes severe skin burns and eye damage.

Precautionary statements

- Keep only in original container.
- Do not breathe dusts or mists.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If swallowed: Call a poison center/doctor if you feel unwell.
- If swallowed: Rinse mouth. Do NOT induce vomiting.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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.
- Specific treatment (see on this label).
- Take off contaminated clothing and wash it before reuse.
- Wash contaminated clothing before reuse.
- Absorb spillage to prevent material damage.
- Store locked up.
- Store in corrosive resistant container with a resistant inner liner.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:**NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)****Other hazards****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.

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· Dangerous components:		
7697-37-2	nitric acid	2.0%
7664-39-3	hydrofluoric acid	0.49%
12015-14-4	[2H4]ammonium chloride	0.36%
· Chemical identification of the substance/preparation		
631-61-8	ammonium acetate	0.1%
471-34-1	calcium carbonate	0.05%
497-19-8	sodium carbonate	0.05%
7429-90-5	aluminium	0.05%
7439-89-6	iron	0.05%
7664-93-9	sulphuric acid	0.05%
7722-76-1	Ammonium dihydrogenphosphate	0.05%
7757-79-1	potassium nitrate	0.05%
13446-18-9	magnesium nitrate hexahydrate	0.05%
7440-32-6	titanium	0.001%
7439-98-7	molybdenum	0.001%
7732-18-5	water, distilled, conductivity or of similar purity	96.648%
7440-22-4	silver	0.00001%
7440-38-2	arsenic	0.00001%
7440-43-9	cadmium	0.000005%
7440-48-4	cobalt	0.00002%
7440-47-3	chromium	0.00001%
7440-50-8	copper	0.00001%
6156-78-1	Manganese(II) acetate tetrahydrate	0.00001%
7440-02-0	nickel	0.00002%
7782-49-2	selenium	0.00001%
7803-55-6	Ammonium Vanadate	0.00002%
7440-66-6	zinc	0.00001%

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.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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- **After swallowing:**
Immediately call a doctor.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Information for 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:** No special measures required.
- **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	nitric acid	0.16 ppm
631-61-8	ammonium acetate	3.8 mg/m ³
471-34-1	calcium carbonate	45 mg/m ³
497-19-8	sodium carbonate	7.6 mg/m ³
7439-89-6	iron	3.2 mg/m ³
7664-93-9	sulphuric acid	0.20 mg/m ³
7722-76-1	Ammonium dihydrogenphosphate	17 mg/m ³
7757-79-1	potassium nitrate	9 mg/m ³

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13446-18-9	magnesium nitrate hexahydrate	16 mg/m ³
7440-32-6	titanium	30 mg/m ³
7439-98-7	molybdenum	30 mg/m ³
7803-55-6	Ammonium Vanadate	0.01 mg/m ³
7440-02-0	nickel	4.5 mg/m ³
7440-48-4	cobalt	0.18 mg/m ³
7782-49-2	selenium	0.6 mg/m ³
6156-78-1	Manganese(II) acetate tetrahydrate	13 mg/m ³
7440-22-4	silver	0.3 mg/m ³
7440-38-2	arsenic	1.5 mg/m ³
7440-43-9	cadmium	0.10 mg/m ³
7440-47-3	chromium	1.5 mg/m ³
7440-50-8	copper	3 mg/m ³
7440-66-6	zinc	6 mg/m ³

PAC-2:

7697-37-2	nitric acid	24 ppm
631-61-8	ammonium acetate	42 mg/m ³
471-34-1	calcium carbonate	210 mg/m ³
497-19-8	sodium carbonate	83 mg/m ³
7439-89-6	iron	35 mg/m ³
7664-93-9	sulphuric acid	8.7 mg/m ³
7722-76-1	Ammonium dihydrogenphosphate	190 mg/m ³
7757-79-1	potassium nitrate	100 mg/m ³
13446-18-9	magnesium nitrate hexahydrate	180 mg/m ³
7440-32-6	titanium	330 mg/m ³
7439-98-7	molybdenum	330 mg/m ³
7803-55-6	Ammonium Vanadate	0.11 mg/m ³
7440-02-0	nickel	50 mg/m ³
7440-48-4	cobalt	2 mg/m ³
7782-49-2	selenium	6.6 mg/m ³
6156-78-1	Manganese(II) acetate tetrahydrate	22 mg/m ³
7440-22-4	silver	170 mg/m ³
7440-38-2	arsenic	17 mg/m ³
7440-43-9	cadmium	0.76 mg/m ³
7440-47-3	chromium	17 mg/m ³
7440-50-8	copper	33 mg/m ³
7440-66-6	zinc	21 mg/m ³

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· PAC-3:		
7697-37-2	nitric acid	92 ppm
631-61-8	ammonium acetate	250 mg/m ³
471-34-1	calcium carbonate	1,300 mg/m ³
497-19-8	sodium carbonate	500 mg/m ³
7439-89-6	iron	150 mg/m ³
7664-93-9	sulphuric acid	160 mg/m ³
7722-76-1	Ammonium dihydrogenphosphate	1,100 mg/m ³
7757-79-1	potassium nitrate	600 mg/m ³
13446-18-9	magnesium nitrate hexahydrate	1,100 mg/m ³
7440-32-6	titanium	2,000 mg/m ³
7439-98-7	molybdenum	2,000 mg/m ³
7803-55-6	Ammonium Vanadate	80 mg/m ³
7440-02-0	nickel	99 mg/m ³
7440-48-4	cobalt	20 mg/m ³
7782-49-2	selenium	40 mg/m ³
6156-78-1	Manganese(II) acetate tetrahydrate	740 mg/m ³
7440-22-4	silver	990 mg/m ³
7440-38-2	arsenic	100 mg/m ³
7440-43-9	cadmium	4.7 mg/m ³
7440-47-3	chromium	99 mg/m ³
7440-50-8	copper	200 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.
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.

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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 remaining constituent has no known exposure limits.

7697-37-2 nitric acid

PEL	Long-term value: 5 mg/m ³ , 2 ppm
REL	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5 mg/m ³ , 2 ppm
TLV	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5.2 mg/m ³ , 2 ppm

7664-39-3 hydrofluoric acid

PEL	Long-term value: 3 ppm as F
REL	Long-term value: 2.5 mg/m ³ , 3 ppm Ceiling limit value: 5* mg/m ³ , 6* ppm *15-min, as F
TLV	Long-term value: 0.41 mg/m ³ , 0.5 ppm Ceiling limit value: 1.64 mg/m ³ , 2 ppm as F; Skin; BEI

· **Ingredients with biological limit values:**

7664-39-3 hydrofluoric acid

BEI	3 mg/g creatinine Medium: urine Time: prior to shift Parameter: Flourides (background)
	10 mg/g creatinine Medium: urine Time: end of shift Parameter: Flourides (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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

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· **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.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 through 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
· Color:	Yellow
· 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.

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· 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 at 20 °C (68 °F):	1.01447 g/cm ³ (8.46575 lbs/gal)
· Bulk density:	~1,006~1,009 kg/m ³
· 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/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Water:	96.6 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.4 %
· 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:** Strong 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:

Harmful

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 (International Agency for Research on Cancer)**

7664-93-9	sulphuric acid	I
7440-02-0	nickel	2B
7440-48-4	cobalt	2B
7782-49-2	selenium	3
7440-38-2	arsenic	I
7440-43-9	cadmium	I
7440-47-3	chromium	3

· **NTP (National Toxicology Program)**

7664-93-9	sulphuric acid	K
7440-02-0	nickel	R
7440-48-4	cobalt	R
7440-38-2	arsenic	K
7440-43-9	cadmium	K

· **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:**
Not hazardous for water.
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:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN3264
- **UN proper shipping name**
- **DOT** Corrosive liquid, acidic, inorganic, n.o.s. (Hydrofluoric acid, Nitric acid)
- **ADR** 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROFLUORIC ACID, NITRIC ACID)
- **IMDG, IATA** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROFLUORIC ACID, NITRIC ACID)
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 8 Corrosive substances

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· Label	8
· ADR	
	
· Class	8 (C1) Corrosive substances
· Label	8
· IMDG, IATA	
	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· 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 MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L 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

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· **UN "Model Regulation":** UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROFLUORIC ACID, NITRIC ACID), 8, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

7697-37-2	nitric acid
7664-93-9	sulphuric acid

· **Section 313 (Specific toxic chemical listings):**

7697-37-2	nitric acid
7429-90-5	aluminium
7664-93-9	sulphuric acid
7757-79-1	potassium nitrate
13446-18-9	magnesium nitrate hexahydrate
7803-55-6	Ammonium Vanadate
7440-02-0	nickel
7440-48-4	cobalt
7782-49-2	selenium
7440-22-4	silver
7440-38-2	arsenic
7440-43-9	cadmium
7440-47-3	chromium
7440-50-8	copper
7440-66-6	zinc

· **TSCA (Toxic Substances Control Act):**

7697-37-2	nitric acid	ACTIVE
631-61-8	ammonium acetate	ACTIVE
471-34-1	calcium carbonate	ACTIVE
497-19-8	sodium carbonate	ACTIVE
7429-90-5	aluminium	ACTIVE
7439-89-6	iron	ACTIVE
7664-93-9	sulphuric acid	ACTIVE
7722-76-1	Ammonium dihydrogenphosphate	ACTIVE
7757-79-1	potassium nitrate	ACTIVE
7440-32-6	titanium	ACTIVE

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7439-98-7	molybdenum	ACTIVE
7803-55-6	Ammonium Vanadate	ACTIVE
7440-02-0	nickel	ACTIVE
7440-48-4	cobalt	ACTIVE
7782-49-2	selenium	ACTIVE
7440-22-4	silver	ACTIVE
7440-38-2	arsenic	ACTIVE
7440-43-9	cadmium	ACTIVE
7440-47-3	chromium	ACTIVE
7440-50-8	copper	ACTIVE
7440-66-6	zinc	ACTIVE
7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE

· Hazardous Air Pollutants

7440-48-4 cobalt

· Proposition 65

· Chemicals known to cause cancer:

7440-02-0 nickel
7440-48-4 cobalt
7440-38-2 arsenic
7440-43-9 cadmium

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

7440-43-9 cadmium

· Chemicals known to cause developmental toxicity:

7440-43-9 cadmium

· Carcinogenic categories

· EPA (Environmental Protection Agency)

631-61-8	ammonium acetate	D
7782-49-2	selenium	D
7440-22-4	silver	D
7440-38-2	arsenic	A
7440-43-9	cadmium	BI
7440-47-3	chromium	D
7440-50-8	copper	D
7440-66-6	zinc	D, I, II

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· TLV (Threshold Limit Value established by ACGIH)		
7429-90-5	aluminium	A4
7664-93-9	sulphuric acid	A2
7439-98-7	molybdenum	A3
7440-02-0	nickel	A5
7440-48-4	cobalt	A3
7440-38-2	arsenic	A1
7440-43-9	cadmium	A2
7440-47-3	chromium	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)		
7440-02-0	nickel	
7440-38-2	arsenic	
7440-43-9	cadmium	

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**

nitric acid
hydrofluoric acid
[2H4]ammonium chloride

· **Hazard statements**

H290 May be corrosive to metals.
H302+H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.

· **Precautionary statements**

Keep only in original container.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

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acc. to OSHA HCS

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Trade name: ICP-MS Interference Check

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- Specific treatment (see on this label).*
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.

- **Contact:**

High-Purity Standards

Tel: 843-767-7900

Fax: 843-767-7906

- **Date of preparation / last revision** 05/25/2020 / -

- **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

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

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

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