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## Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2022 Reviewed on 08/04/2022

#### 1 Identification

· Product identifier

· Trade name: <u>ICP-MS-68B-A</u> · Article number: ICP-MS-68B-A

· 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

· Emergency telephone number:

**INFOTRAC** 

Emergency telephone numbers 1-800-535-5053 Other emergency telephone numbers 1-352-323-3500

#### 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.

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



GHS05

- · Signal word Danger
- · Hazard-determining components of labeling: nitric acid
- · Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

Keep only in original container.

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Do not breathe dusts or mists.

Wash thoroughly after handling.

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

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).

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)



Health = 3 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 3 Fire = 0

EACTIVITY 0 Reactivity = 0

- · 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.

· Dangerous components:	
7697-37-2 nitric acid	4.0%
· Chemical identification of the substance/preparation	
7732-18-5 water, distilled, conductivity or of similar purity	95.52%
471-34-1 calcium carbonate	0.01%
497-19-8 sodium carbonate	0.01%
513-77-9 barium carbonate	0.01%
543-81-7 beryllium acetate	0.01%
	(Contd. on page 3)





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55/12 2 lithium agrhanata	(Contd. of
554-13-2 lithium carbonate	0.0
584-09-8 rubidium carbonate	0.0
1312-81-8 lanthanum oxide	0.0
1314-36-9 yttrium oxide	0.0
1314-37-0 ytterbium (III) oxide	0.0
6156-78-1 Manganese(II) acetate tetrahydrate	0.0
7429-90-5 aluminium	0.0
7429-91-6 dysprosium	0.0
7439-89-6 iron	0.0
7439-92-1 lead	0.0
7439-95-4 magnesium	0.0
7440-00-8 neodymium	0.0
7440-02-0 nickel	0.0
7440-15-5 rhenium	0.0
7440-19-9 samarium	0.0
7440-27-9 terbium	0.0
7440-28-0 thallium	0.0
7440-29-1 thorium	0.0
7440-38-2 arsenic	0.0
7440-43-9 cadmium	0.0
7440-45-1 cerium	0.0
7440-46-2 caesium	0.0
7440-47-3 chromium	0.0
7440-48-4 cobalt	0.0
7440-50-8 copper	0.0
7440-52-0 erbium	0.0
7440-53-1 europium	0.
7440-54-2 gadolinium	0.0
7440-55-3 gallium	0.1
7440-60-0 holmium	0
7440-66-6 zinc	0.
7440-69-9 bismuth	0.
7440-74-6 indium	0.0
7722-76-1 Ammonium dihydrogenphosphate	0.0
7757-79-1 potassium nitrate	0.0
7782-49-2 selenium	0.0
7803-55-6 Ammonium Vanadate	0.0



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	(Co	ntd. of page 3)
10042-76-9	strontium nitrate	0.01%
10043-35-3	boric acid	0.01%
10102-06-4	Uranyl nitrate	0.01%
12032-20-1	lutetium oxide	0.01%
12036-44-1	thulium oxide	0.01%
12037-29-5	Praseodymium(III,IV) oxide	0.01%
12060-08-1	scandium oxide	0.01%

#### 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. Then consult a doctor.
- · After swallowing: 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: Do not allow to enter sewers/surface or ground 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.

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#### · 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
471-34-1 calcium carbonate	$45 \text{ mg/m}^3$
497-19-8 sodium carbonate	7.6 mg/m³
513-77-9 barium carbonate	$2.2 \text{ mg/m}^3$
554-13-2 lithium carbonate	$3.1 \text{ mg/m}^3$
1312-81-8 lanthanum oxide	$4 \text{ mg/m}^3$
1314-36-9 yttrium oxide	$3.8 \text{ mg/m}^3$
1314-37-0 ytterbium (III) oxide	30 mg/m <sup>3</sup>
6156-78-1 Manganese(II) acetate tetrahydrate	13 mg/m³
7429-91-6 dysprosium	$30 \text{ mg/m}^3$
7439-89-6 iron	$3.2 \text{ mg/m}^3$
7439-92-1 lead	0.15 mg/m
7439-95-4 magnesium	$18 \text{ mg/m}^3$
7440-00-8 neodymium	$30 \text{ mg/m}^3$
7440-02-0 nickel	$4.5 \text{ mg/m}^3$
7440-19-9 samarium	$30 \text{ mg/m}^3$
7440-27-9 terbium	1.2 mg/m <sup>3</sup>
7440-28-0 thallium	0.06 mg/m
7440-29-1 thorium	$30 \text{ mg/m}^3$
7440-38-2 arsenic	1.5 mg/m <sup>3</sup>
7440-43-9 cadmium	0.10 mg/m
7440-45-1 cerium	$30 \text{ mg/m}^3$
7440-46-2 caesium	$5.6 \text{ mg/m}^3$
7440-47-3 chromium	1.5 mg/m <sup>3</sup>
7440-48-4 cobalt	0.18 mg/m
7440-50-8 copper	3 mg/m <sup>3</sup>
7440-53-1 europium	$30 \text{ mg/m}^3$
7440-54-2 gadolinium	$30 \text{ mg/m}^3$
7440-55-3 gallium	$30 \text{ mg/m}^3$
7440-60-0 holmium	12 mg/m³
PAC-2:	1
7697-37-2 nitric acid	24 ppm

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171 21 1 galaium agubangta	(Contd. of pa
471-34-1 calcium carbonate	210 mg/s
497-19-8 sodium carbonate	83 mg/m
513-77-9 barium carbonate	270 mg/s
554-13-2 lithium carbonate	34 mg/m
1312-81-8 lanthanum oxide	44 mg/m
1314-36-9 yttrium oxide	43 mg/m
1314-37-0 ytterbium (III) oxide	330 mg/s
6156-78-1 Manganese(II) acetate tetrahydrate	22 mg/m
7429-91-6 dysprosium	330 mg/s
7439-89-6 iron	35 mg/m
7439-92-1 lead	120 mg/s
7439-95-4 magnesium	200 mg/s
7440-00-8 neodymium	330 mg/i
7440-02-0 nickel	50 mg/m
7440-19-9 samarium	330 mg/i
7440-27-9 terbium	13 mg/m
7440-28-0 thallium	3.3 mg/n
7440-29-1 thorium	330 mg/s
7440-38-2 arsenic	17 mg/m
7440-43-9 cadmium	0.76 mg/
7440-45-1 cerium	330 mg/s
7440-46-2 caesium	61 mg/m
7440-47-3 chromium	17 mg/m
7440-48-4 cobalt	$2 mg/m^3$
7440-50-8 copper	33 mg/m
7440-53-1 europium	330 mg/s
7440-54-2 gadolinium	330 mg/s
7440-55-3 gallium	330 mg/s
7440-60-0 holmium	130 mg/s
PAC-3:	
7697-37-2 nitric acid	92 ppm
471-34-1 calcium carbonate	1,300 mg/
497-19-8 sodium carbonate	500 mg/m
513-77-9 barium carbonate	1,600 mg/
554-13-2 lithium carbonate	210 mg/m
1312-81-8 lanthanum oxide	270 mg/m
1314-36-9 yttrium oxide	260 mg/m





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1314-37-0 ytterbium (III) oxide	(Contd. of pa 2,000 mg/
6156-78-1 Manganese(II) acetate tetrahydrate	740 mg/m
7429-91-6 dysprosium	2,000 mg/
7439-89-6 iron	150 mg/m
7439-92-1 lead	700 mg/m
7439-95-4 magnesium	1,200 mg/
7440-00-8 neodymium	2,000 mg/
7440-02-0 nickel	99 mg/m³
7440-19-9 samarium	2,000 mg/
7440-27-9 terbium	79 mg/m³
7440-28-0 thallium	$20 \text{ mg/m}^3$
7440-29-1 thorium	2,000 mg/
7440-38-2 arsenic	100 mg/m
7440-43-9 cadmium	4.7 mg/m <sup>2</sup>
7440-45-1 cerium	2,000 mg/
7440-46-2 caesium	370 mg/m
7440-47-3 chromium	99 mg/m³
7440-48-4 cobalt	20 mg/m³
7440-50-8 copper	200 mg/m
7440-53-1 europium	2,000 mg/
7440-54-2 gadolinium	2,000 mg/
7440-55-3 gallium	2,000 mg/
7440-60-0 holmium	790 mg/m

### 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:

#### 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: 4 ppm Long-term value: 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.

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.

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.

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· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid

Color: According to product specification

Odor: CharacteristicOdor 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

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

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		(Contd. of page 9)
Solvent content:	05.5.07	
Water: VOC content:	95.5 % 0.00 %	
voc content.	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.

#### 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: 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)	
543-81-7	beryllium acetate	1
7439-92-1		2B
7440-02-0		2B
7440-29-1	thorium	1
7440-38-2	arsenic	1
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		(Contd. of page 10)	
7440-43-9	cadmium	1	
7440-47-3	chromium	3	
7440-48-4	cobalt	2B	
7782-49-2	selenium	3	
· NTP (Nati	onal Toxicology Program)		
543-81-7	beryllium acetate	K	
7439-92-1	lead	R	
7440-02-0	nickel	R	
7440-38-2	arsenic	K	
7440-43-9	cadmium	K	
7440-48-4	cobalt	R	
· OSHA-Ca	· 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.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

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

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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, ADR, IMDG, IATA	UN3264
UN proper shipping name	
DOT ADR	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
	(NITRIC ACID)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRI ACID)
Transport hazard class(es)	
DOT	
CORROSIVE	
Class	8 Corrosive substances
Label	8
2	
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





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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
-	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.
ŭ	(NITRIC ACID), 8, III

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- ·Sara

Sura	
· Section 355	(extremely hazardous substances):
7697-37-2	nitric acid
· Section 313	(Specific toxic chemical listings):
7697-37-2	nitric acid
513-77-9	barium carbonate
543-81-7	beryllium acetate
554-13-2	lithium carbonate
7429-90-5	aluminium
7439-92-1	lead
7440-02-0	nickel
7440-28-0	thallium
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7440-38-2 arsenic	
7440-43-9 cadmium	
7440-47-3 chromium	
7440-48-4 cobalt	
7440-50-8 copper	
7440-66-6 zinc	
7757-79-1 potassium nitrate	
7782-49-2 selenium	
7803-55-6 Ammonium Vanadate	
10042-76-9 strontium nitrate	
TSCA (Toxic Substances Control Act):	
7732-18-5 water, distilled, conductivity or of similar purity	ACTI
7697-37-2 nitric acid	ACTI
471-34-1 calcium carbonate	ACTI
497-19-8 sodium carbonate	ACTI
513-77-9 barium carbonate	ACTI
554-13-2 lithium carbonate	ACTI
584-09-8 rubidium carbonate	ACTI
1312-81-8 lanthanum oxide	ACTI
1314-36-9 yttrium oxide	ACTI
1314-37-0 ytterbium (III) oxide	ACTI
7429-90-5 aluminium	ACTI
7429-91-6 dysprosium	ACTI
7439-89-6 iron	ACTI
7439-92-1 lead	ACTI
7439-95-4 magnesium	ACTI
7440-00-8 neodymium	ACTI
7440-02-0 nickel	ACTI
7440-15-5 rhenium	ACTI
7440-19-9 samarium	ACTI
7440-27-9 terbium	ACTI
7440-28-0 thallium	ACTI
7440-29-1 thorium	ACTI
7440-38-2 arsenic	ACTI
7440-43-9 cadmium	ACTI
7440-45-1 cerium	ACTI
7440-46-2 caesium	ACTI





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7440-47-3 cl	ıromium	(Contd. of page ACTI)
7440-48-4 co		ACTI
7440-50-8 co		ACTI
7440-52-0 ei		ACTI
· Hazardous A		11011)
7439-92-1 le		
7440-48-4 co		
· Proposition 6	5	
-	own to cause cancer:	
	eryllium acetate	
7439-92-1 le		
7440-02-0 ni	ckel	
7440-38-2 ar	rsenic	
7440-43-9 ca	dmium	
7440-48-4 co	balt	
· Chemicals kr	own to cause reproductive toxicity for females	:
7439-92-1 le	ad	
· Chemicals kr	nown to cause reproductive toxicity for males:	
7439-92-1 le	ad	
7440-43-9 ca	dmium	
· Chemicals kr	own to cause developmental toxicity:	
554-13-2 lii	hium carbonate	
7439-92-1 le	ad	
7440-43-9 ca	ıdmium	
· Carcinogenio	o catagorias	
	nmental Protection Agency)	
	parium carbonate	D, CBD(inh), NL(ord
7439-92-1		B2
7440-38-2	ursenic	A
7440-43-9		BI
7440-47-3		D
7440-50-8		D
7440-66-6		D, I, II
7782-49-2		D
10043-35-3		I (oral)
	old Limit Value)	



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7429-90-5		A4
7439-92-1	lead	A3
7440-02-0	nickel	A5
7440-38-2	arsenic	AI
7440-43-9	cadmium	A2
7440-47-3	chromium	A4
7440-48-4	cobalt	A3
10043-35-3	boric acid	A4
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
543-81-7	beryllium acetate	
7440-02-0	nickel	
7440-38-2	arsenic	
7440-43-9	cadmium	
10102-06-4	Uranyl nitrate	

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



· Signal word Danger

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

nitric acid

#### · Hazard statements

H290 May be corrosive to metals.

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.

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

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).

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Store locked up.

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## Safety Data Sheet acc. to OSHA HCS

Printing date 08/04/2022 Reviewed on 08/04/2022

Trade name: ICP-MS-68B-A

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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 08/04/2022 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

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

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

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1

US