

Page 1/17

Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

1 Identification

· Product identifier

· Trade name: ICP Stock Solution

· Article number: ICP-SS

· 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.



GHS07

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

(Contd. on page 2)



Page 2/17

Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

(Contd. of page 1)

hydrogen fluoride

· Hazard statements

H290 May be corrosive to metals.

H312 Harmful 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.

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).

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)



Health = 3Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 3

Fire = 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.

(Contd. on page 3)





Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

	(Contd. of pag
Dangerous components:	
7697-37-2 nitric acid	2.0
7664-39-3 hydrogen fluoride	0.49
Chemical identification of the substance/preparation	
7732-18-5 water, distilled, conductivity or of similar purity	96.9168
471-34-1 calcium carbonate	0.2%
497-19-8 sodium carbonate	0.2%
7439-95-4 magnesium	0.05%
16919-19-0 ammonium hexafluorosilicate	0.05%
7757-79-1 potassium nitrate	0.015%
7429-90-5 aluminium	0.01%
7439-89-6 iron	0.01%
7440-66-6 zinc	0.01%
10042-76-9 strontium nitrate	0.01%
7440-36-0 antimony	0.0059
7782-49-2 selenium	0.0059
7439-92-1 lead	0.0025
7440-38-2 arsenic	0.0025
513-77-9 barium carbonate	0.0029
543-81-7 beryllium acetate	0.0029
6156-78-1 Manganese(II) acetate tetrahydrate	0.0029
7440-02-0 nickel	0.0029
7440-31-5 tin	0.0029
7440-43-9 cadmium	0.0029
7440-47-3 chromium	0.0029
7440-48-4 cobalt	0.0029
7440-50-8 copper	0.0029
7803-55-6 Ammonium Vanadate	0.0029
10043-35-3 boric acid	0.0029
7440-28-0 thallium	0.0019
7440-22-4 silver	0.0001

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 4)





Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

(Contd. of page 3)

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.
- · 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.

· 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
7664-39-3 hydrogen fluoride	1.0 ppm
471-34-1 calcium carbonate	45 mg/m³
497-19-8 sodium carbonate	7.6 mg/m
7439-95-4 magnesium	18 mg/m³
16919-19-0 ammonium hexafluorosilicate	12 mg/m³





Printing date 05/27/2022 Reviewed on 05/27/2022

7757-79-1	potassium nitrate	(Contd. of pag) $9 mg/m^3$
7439-89-6		3.2 mg/m ⁻
7440-66-6		$6 mg/m^3$
	strontium nitrate	5.7 mg/m ²
7440-36-0		$\frac{3.7 \text{ mg/m}}{1.5 \text{ mg/m}^4}$
7782-49-2		$0.6 \text{ mg/m}^{-1.5 $
7439-92-1		0.15 mg/n
7440-38-2		1.5 mg/m^{-1}
	barium carbonate	2.2 mg/m^{-1}
	Manganese(II) acetate tetrahydrate	$\frac{2.2 \text{ mg/m}}{13 \text{ mg/m}^3}$
7440-02-0		4.5 mg/m^{-1}
7440-02-0		6 mg/m^3
7440-31-3		0.10 mg/m
	chromium	1.5 mg/m ²
7440-47-3		0.18 mg/m
7440-48-4		$3 mg/m^3$
	Ammonium Vanadate	0.01 mg/m^{-1}
10043-35-3		$6 mg/m^3$
7440-28-0		0.06 mg/m
7440-28-0		
	suver	0.3 mg/m ⁻
PAC-2:		
	nitric acid	24 ppm
	hydrogen fluoride	24 ppm
	calcium carbonate	210 mg/m
	sodium carbonate	83 mg/m^3
	magnesium	200 mg/m
	ammonium hexafluorosilicate	130 mg/m
7757-79-1	potassium nitrate	100 mg/m
7439-89-6	iron	35 mg/m^3
7440-66-6	zinc	21 mg/m³
10042-76-9	strontium nitrate	62 mg/m³
7440-36-0	antimony	13 mg/m³
7782-49-2	selenium	6.6 mg/m ²
7439-92-1	lead	120 mg/m
7440-38-2	arsenic	17 mg/m³
513-77-9	barium carbonate	270 mg/m
6156-78-1	Manganese(II) acetate tetrahydrate	22 mg/m^3





Printing date 05/27/2022 Reviewed on 05/27/2022

7440-02-0	nickel	(Contd. of page 50 mg/m
7440-31-5		67 mg/m
7440-43-9		0.76 mg/
7440-47-3		17 mg/m
7440-48-4		$\frac{17 \text{ mg/m}^3}{2 \text{ mg/m}^3}$
7440-50-8		33 mg/m
	Ammonium Vanadate	0.11 mg/
10043-35-3		23 mg/m
7440-28-0		3.3 mg/m
7440-22-4		170 mg/r
• PAC-3:		170 1108
	nitric acid	02 nnm
	hydrogen fluoride	92 ppm
	nyarogen jiuoriae calcium carbonate	44 ppm 1,300 mg/
	sodium carbonate	500 mg/m
		1,200 mg/m
	magnesium ammonium hexafluorosilicate	780 mg/m
	<u> </u>	
	potassium nitrate	600 mg/m
7439-89-6		150 mg/m
7440-66-6		120 mg/m
	strontium nitrate	370 mg/m
7440-36-0		80 mg/m^3
7782-49-2		40 mg/m^3
7439-92-1		700 mg/m
7440-38-2		100 mg/m
	barium carbonate	1,600 mg/
	Manganese(II) acetate tetrahydrate	740 mg/m
7440-02-0		99 mg/m³
7440-31-5		400 mg/m
7440-43-9		4.7 mg/m^3
7440-47-3		99 mg/m³
7440-48-4		20 mg/m^3
7440-50-8	_ ^ ^	200 mg/m
	Ammonium Vanadate	80 mg/m^3
10043-35-3		830 mg/m
7440-28-0	thallium	20 mg/m^3



Page 7/17

Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

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.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Components w	Components with limit values that require monitoring at the workplace:			
7697-37-2 nitr	ic acid			
PEL Long-ter	m value: 5 mg/m³, 2 ppm			
REL Short-ter	m value: 10 mg/m³, 4 ppm			

Long-term value: 5 mg/m³, 2 ppm

TLV Short-term value: 4 ppm

Long-term value: 4 ppm
Long-term value: 2 ppm

7664-39-3 hydrogen fluoride

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: 0.5 ppm Ceiling limit value: 2 ppm as F; Skin, BEI

(Contd. on page 8)



Page 8/17

Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

(Contd. of page 7)

· Ingredients with biological limit values:

7664-39-3 hydrogen fluoride

BEI 3 mg/g creatinine

Medium: urine Time: prior to shift

Parameter: Fluorides (background, nonspecific)

10 mg/g creatinine Medium: urine Time: end of shift

Parameter: Fluorides (background, nonspecific)

- 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.

(Contd. on page 9)





Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

(Contd. of page 8)

Page 9/17

· Eye protection:



Tightly sealed goggles

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	_				 		P - U	P	\sim

· Information on basic physical and chemical propertie	· Information	on basic	physical	and chemical	properties
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General Information

· Appearance:

Form: Liquid

Color: According to product specification

· Odor: Characteristic · Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:

- 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.

(Contd. on page 10)



Page 10/17



Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

		(Contd. of page 9)
Solvent content: Water:	96.9 %	
VOC content:	0.00 %	
Solids content:	0.0 g/l / 0.00 lb/gal 0.5 %	
· 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:

7664-39-3 hydrogen fluoride

Oral LD50 1,276 mg/kg (rat)

- · 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)

7782-49-2 selenium

(Contd. on page 11)



Page 11/17

Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

		(Contd. of page
7439-92-	l lead	2.
7440-38-2	2 arsenic	1
543-81-7	7 beryllium acetate	1
7440-02-0	nickel	2.
7440-43-9	9 cadmium	1
7440-47-3	3 chromium	3
7440-48-4	4 cobalt	2.
· NTP (Nat	tional Toxicology Program)	
7439-92-	l lead	I
7440-38-2	2 arsenic	i
543-81-7	7 beryllium acetate	i
7440-02-0	nickel	i
7440-43-9	9 cadmium	i
7440-48-4	4 cobalt	i
· OSHA-Ca	a (Occupational Safety & Health Administration)	<u>'</u>
7440-38-2	2 arsenic	
7440-43-9	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.

US



Page 12/17

Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

(Contd. of page 11)

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.

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141	ransport	intori	mation

•	IIN.	Num	hor

· DOT, ADR, IMDG, IATA

UN3264

· UN proper shipping name

 $\cdot DOT$

Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid, Hydrogen

fluoride)

 $\cdot ADR$

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

(NITRIC ACID, HYDROGEN FLUORIDE)

· IMDG, IATA

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC

ACID, HYDROGEN FLUORIDE)

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



· Class

8 Corrosive substances

· Label

 \cdot ADR



· Class · Label 8 (C1) Corrosive substances

R

· IMDG, IATA



· Class

8 Corrosive substances

(Contd. on page 13)





Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

	(Contd. of page
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 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.
~	(NITRIC ACID, HYDROGEN FLUORIDE), 8, III

15 Regulatory information

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

· Section 35.	Section 355 (extremely hazardous substances):			
7697-37-2	nitric acid			
7664-39-3	hydrogen fluoride			
	ction 313 (Specific toxic chemical listings):			
7697-37-2	2 nitric acid			
7664-39-3	hydrogen fluoride			

(Contd. on page 14)





Printing date 05/27/2022 Reviewed on 05/27/2022

7757 70 3		(Contd. of pag
	potassium nitrate	
	aluminium	
7440-66-6		
	strontium nitrate	
	antimony	
	? selenium	
7439-92-1		
7440-38-2		
	barium carbonate	
	beryllium acetate	
7440-02-0		
7440-43-9	Cadmium	
	Chromium	
7440-48-4		
7440-50-8		
	Ammonium Vanadate	
7440-28-0	thallium	
7440-22-4	t silver	
· TSCA (Tox	cic Substances Control Act):	
7732-18-5	water, distilled, conductivity or of similar purity	ACTI
7697-37-2	nitric acid	ACT
7664-39-3	hydrogen fluoride	ACTI
471-34-1	calcium carbonate	ACT
497-19-8	sodium carbonate	ACT
7439-95-4	magnesium	ACT
16919-19-0	ammonium hexafluorosilicate	ACTI
7757-79-1	potassium nitrate	ACT
7429-90-5	aluminium	ACTI
7439-89-6	iron	ACTI
7440-66-6	i zinc	ACT
10042-76-9	strontium nitrate	ACTI
7440-36-0	antimony	ACT
7782-49-2	? selenium	ACTI
7439-92-1	lead	ACT
	? arsenic	ACTI
7440-38-2		
	barium carbonate	ACTI





Printing date 05/27/2022 Reviewed on 05/27/2022

		(Contd. of page
7440-31-5	tin	ACTIVI
7440-43-9	cadmium	ACTIV
7440-47-3	chromium	ACTIV
7440-48-4	cobalt	ACTIV
7440-50-8	copper	ACTIV
	Ammonium Vanadate	ACTIV
10043-35-3	boric acid	ACTIV
7440-28-0	thallium	ACTIV
7440-22-4	silver	ACTIV
· Hazardous	Air Pollutants	·
7664-39-3	hydrogen fluoride	
7439-92-1	lead	
7440-48-4	cobalt	
· Proposition	65	
· Chemicals	known to cause cancer:	
7439-92-1	lead	
7440-38-2	arsenic	
	beryllium acetate	
7440-02-0		
7440-43-9		
7440-48-4	cobalt	
· Chemicals	known to cause reproductive toxicity for females:	
7439-92-1	lead	
· Chemicals	known to cause reproductive toxicity for males:	
7439-92-1	lead	
7440-43-9	cadmium	
· Chemicals	known to cause developmental toxicity:	
7439-92-1	- · · · · · · · · · · · · · · · · · · ·	
7440-43-9	cadmium	
· Carcinoger	ic categories	
_	conmental Protection Agency)	
7440-66-6	zinc	D, I, II
	selenium	D
7439-92-1	lead	B2
7440-38-2	arsenic	A
513-77-9	barium carbonate	D, CBD(inh), NL(oral
	cadmium	



Page 16/17

Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

		(Contd. of page
7440-47-3	chromium	D
7440-50-8	copper	D
10043-35-3	boric acid	I (oral)
7440-22-4	silver	D
TLV (Thres	hold Limit Value)	
7429-90-5	aluminium	2
7439-92-1	lead	2
7440-38-2	arsenic	2
513-77-9	barium carbonate	2
7440-02-0	nickel	2
7440-43-9	cadmium	2
7440-47-3	chromium	2
7440-48-4	cobalt	2
10043-35-3	boric acid	4
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
7440-38-2	arsenic	
543-81-7	beryllium acetate	
7440-02-0 i	nickel	
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

hydrogen fluoride

· Hazard statements

H290 May be corrosive to metals.

H312 Harmful 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.

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.

(Contd. on page 17)



Page 17/17

Safety Data Sheet acc. to OSHA HCS

Printing date 05/27/2022 Reviewed on 05/27/2022

Trade name: ICP Stock Solution

(Contd. of page 16)

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.

· 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 05/27/2022 / -
- · 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)

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

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