



Printing date 04/19/2022 Reviewed on 04/19/2022

1 Identification

- · Product identifier
- · Trade name: ICP-MS Interfernence Check Standard 2
- · Article number: ICP-MS-ICS-2-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



GHS08 Health hazard

Carc. 1A H350 May cause cancer.



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).

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· Hazard pictograms







GHS05 GHS07

· Signal word Danger

· Hazard-determining components of labeling:

nitric acid

hydrogen fluoride

sulphuric acid

· Hazard statements

H290 May be corrosive to metals.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H350 May cause cancer.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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.

IF exposed or concerned: Get medical advice/attention.

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 = 3 Fire = 0 Reactivity = 0

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· 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.

7697-37-2	nitric acid		5.0%
7664-39-3	hydrogen fluoride		0.49%
7664-93-9	sulphuric acid		0.1%
Chemical id	lentification of the substance/preparation		
7732-18-5	water, distilled, conductivity or of similar purity	9	91.006%
7647-14-5	sodium chloride		2.0%
471-34-1	calcium carbonate		0.3%
497-19-8	sodium carbonate		0.25%
7439-89-6	iron		0.25%
631-61-8	ammonium acetate		0.2%
7429-90-5	aluminium		0.1%
7722-76-1	Ammonium dihydrogenphosphate		0.1%
7757-79-1	potassium nitrate		0.1%
13446-18-9	magnesium nitrate hexahydrate		0.1%
7440-32-6	titanium		0.002%
13106-76-8	ammonium molybdate(VI)		0.002%

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.

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- · 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/m^3
497-19-8 sodium carbonate	7.6 mg/m^3
7439-89-6 iron	3.2 mg/m^3
631-61-8 ammonium acetate	3.8 mg/m^3
7664-93-9 sulphuric acid	0.20 mg/m
7722-76-1 Ammonium dihydrogenphosphate	17 mg/m^3
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7757-79-1	potassium nitrate	(Contd. of page 9 mg/m ³
	magnesium nitrate hexahydrate	16 mg/m^3
7440-32-6	•	30 mg/m^3
	ammonium molybdate(VI)	3.1 mg/m^3
PAC-2:		
	nitric acid	24 ppm
7664-39-3	hydrogen fluoride	24 ppm
	calcium carbonate	210 mg/m
497-19-8	sodium carbonate	83 mg/m^3
7439-89-6	iron	35 mg/m^3
631-61-8	ammonium acetate	42 mg/m³
7664-93-9	sulphuric acid	8.7 mg/m
7722-76-1	Ammonium dihydrogenphosphate	190 mg/m
7757-79-1	potassium nitrate	100 mg/m
13446-18-9	magnesium nitrate hexahydrate	180 mg/m
7440-32-6	titanium	330 mg/m
13106-76-8	ammonium molybdate(VI)	22 mg/m³
<i>PAC-3:</i>		
7697-37-2	nitric acid	92 ppm
7664-39-3	hydrogen fluoride	44 ppm
471-34-1	calcium carbonate	1,300 mg/m
497-19-8	sodium carbonate	500 mg/m^3
7439-89-6	iron	150 mg/m^3
631-61-8	ammonium acetate	250 mg/m^3
7664-93-9	sulphuric acid	160 mg/m³
7722-76-1	Ammonium dihydrogenphosphate	1,100 mg/m
7757-79-1	potassium nitrate	600 mg/m³
13446-18-9	magnesium nitrate hexahydrate	1,100 mg/m
7440-32-6		2,000 mg/m
13106-76-8	ammonium molybdate(VI)	130 mg/m^3

7 Handling and storage

- · Handling:
- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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- 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 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

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

7664-93-9 sulphuric acid

- PEL Long-term value: 1 mg/m³
- REL Long-term value: 1 mg/m³
- TLV Long-term value: 0.2* mg/m³
 - *as thoracic fraction, A2

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· 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.

Store protective clothing separately.

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 c	hemical	properties
III OI III UII OII	on ousic	puysicui	unu c	ncmicui	piopeines

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:Undetermined.Boiling point/Boiling range:83 °C (181.4 °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 8)
· Solvent content:		
Water:	91.0 %	
VOC content:	0.00 %	
	0.0~g/l / $0.00~lb/gal$	
Solids content:	3.3 %	
· 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)

7664-93-9 sulphuric acid

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· NTP (National Toxicology Program)

7664-93-9 sulphuric acid

K

· 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:

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.

- · 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. (Nitric acid, Hydrogen
· ADR	fluoride) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROGEN FLUORIDE)

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IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITR ACID, HYDROGEN FLUORIDE)
Transport hazard class(es)	
DOT CORROSVIE	
Class Label	8 Corrosive substances
ADR	0
<u> </u>	
Class	8 (C1) Corrosive substances
Label	8
Class Label	8 Corrosive substances
	0
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
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	On cargo aircraft only: 60 L

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	(Contd. of page 11)
· 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) · Excepted quantities (EQ)	5L 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.S. (NITRIC ACID, HYDROGEN FLUORIDE), 8, III

15 Regulatory information

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

Section 55.	5 (extremely hazardous substances):	
7697-37-2	nitric acid	
7664-39-3	hydrogen fluoride	
7664-93-9	sulphuric acid	
Section 31.	3 (Specific toxic chemical listings):	
7697-37-2	nitric acid	
7664-39-3	hydrogen fluoride	
7429-90-5	aluminium	
7664-93-9	sulphuric acid	
7757-79-1	potassium nitrate	
13446-18-9	magnesium nitrate hexahydrate	
TSCA (Tox	ic Substances Control Act):	
7732-18-5	water, distilled, conductivity or of similar purity	, com
7732 10 3	water, distilled, conductivity or of similar partly	ACTI
	nitric acid	
7697-37-2	, , ,	ACTI ACTI ACTI
7697-37-2 7647-14-5	nitric acid	ACTI ACTI
7697-37-2 7647-14-5 7664-39-3	nitric acid sodium chloride	ACTI ACTI ACTI
7697-37-2 7647-14-5 7664-39-3 471-34-1	nitric acid sodium chloride hydrogen fluoride	ACTI ACTI ACTI ACTI
7697-37-2 7647-14-5 7664-39-3 471-34-1	nitric acid sodium chloride hydrogen fluoride calcium carbonate sodium carbonate	ACTI ACTI ACTI ACTI ACTI
7697-37-2 7647-14-5 7664-39-3 471-34-1 497-19-8 7439-89-6	nitric acid sodium chloride hydrogen fluoride calcium carbonate sodium carbonate	ACTI ACTI ACTI ACTI ACTI ACTI
7697-37-2 7647-14-5 7664-39-3 471-34-1 497-19-8 7439-89-6 631-61-8	nitric acid sodium chloride hydrogen fluoride calcium carbonate sodium carbonate iron	ACTI



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7722-76-1 Ammonium dihydrogenphosphate	ACTIVE
7757-79-1 potassium nitrate	ACTIVE
7440-32-6 titanium	ACTIVE
13106-76-8 ammonium molybdate(VI)	ACTIVE
· Hazardous Air Pollutants	
7664-39-3 hydrogen fluoride	
Proposition 65	
· 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.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
631-61-8 ammonium acetate	D
TLV (Threshold Limit Value)	
7429-90-5 aluminium	A4
7664-93-9 sulphuric acid	A2
13106-76-8 ammonium molybdate(VI)	<i>A3</i>

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





None of the ingredients is listed.



· NIOSH-Ca (National Institute for Occupational Safety and Health)

GHS05

5 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

nitric acid hydrogen fluoride sulphuric acid

· Hazard statements

H290 May be corrosive to metals.

H312 Harmful in contact with skin.

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H314 Causes severe skin burns and eye damage.

H350 May cause cancer.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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.

IF exposed or concerned: Get medical advice/attention.

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.

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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 04/19/2022 / -

· 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

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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

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

Carc. 1A: Carcinogenicity - Category 1A

US ·