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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: ICP Analytical Mixture 6

· Article number: ICP-AM-6-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.



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

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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.

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	(Contd. of page
Dangerous components:	
7697-37-2 nitric acid	4.0%
7664-39-3 hydrogen fluoride	0.49
Chemical identification of the substance/preparation	
7732-18-5 water, distilled, conductivity or of similar purity	95.289
471-34-1 calcium carbonate	0.019
497-19-8 sodium carbonate	0.019
513-77-9 barium carbonate	0.019
543-81-7 beryllium acetate	0.019
554-13-2 lithium carbonate	0.019
6156-78-1 Manganese(II) acetate tetrahydrate	0.019
7429-90-5 aluminium	0.019
7439-89-6 iron	0.019
7439-92-1 lead	0.019
7439-95-4 magnesium	0.019
7440-02-0 nickel	0.019
7440-28-0 thallium	0.019
7440-36-0 antimony	0.019
7440-43-9 cadmium	0.019
7440-47-3 chromium	0.019
7440-48-4 cobalt	0.019
7440-50-8 copper	0.019
7440-66-6 zinc	0.019
7757-79-1 potassium nitrate	0.019
7803-55-6 Ammonium Vanadate	0.019
10042-76-9 strontium nitrate	0.019
10043-35-3 boric acid	0.01%
16919-19-0 ammonium hexafluorosilicate	0.019

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: 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 o	ıcid	0.16 ppm
7664-39-3 hydrog	gen fluoride	1.0 ppm
471-34-1 calciu	n carbonate	$45 mg/m^3$
497-19-8 sodiun	ı carbonate	7.6 mg/m³
513-77-9 bariun	ı carbonate	2.2 mg/m ³
554-13-2 lithiun	ı carbonate	3.1 mg/m ³
6156-78-1 Manga	anese(II) acetate tetrahydrate	13 mg/m³
7439-89-6 iron		3.2 mg/m ³
7439-92-1 lead		0.15 mg/m
7439-95-4 magne	sium	18 mg/m³

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7440-02-0	nickel	4.5 mg/m^3
7440-28-0		0.06 mg/m
7440-36-0		1.5 mg/m^3
7440-43-9	· · · · · · · · · · · · · · · · · · ·	0.10 mg/m
	chromium	1.5 mg/m^3
7440-48-4		0.18 mg/m
7440-50-8		3 mg/m^3
7440-66-6	* *	6 mg/m^3
	potassium nitrate	9 mg/m^3
	Ammonium Vanadate	0.01 mg/m
	strontium nitrate	5.7 mg/m^3
10043-35-3		6 mg/m^3
	ammonium hexafluorosilicate	$\frac{12 \text{ mg/m}^3}{}$
PAC-2:		10 1
	nitric acid	24 ppm
	hydrogen fluoride	24 ppm
	calcium carbonate	$\frac{24 \text{ ppm}}{210 \text{ mg/m}^3}$
	sodium carbonate	83 mg/m^3
	barium carbonate	$\frac{63 \text{ mg/m}}{270 \text{ mg/m}^3}$
	lithium carbonate	$\frac{270 \text{ mg/m}^3}{34 \text{ mg/m}^3}$
	Manganese(II) acetate tetrahydrate	$\frac{34 \text{ mg/m}}{22 \text{ mg/m}^3}$
7439-89-6	•	35 mg/m^3
7439-89-0		$\frac{33 \text{ mg/m}}{120 \text{ mg/m}^3}$
	magnesium	$\frac{120 \text{ mg/m}}{200 \text{ mg/m}^3}$
7440-02-0		$\frac{200 \text{ mg/m}}{50 \text{ mg/m}^3}$
7440-02-0		3.3 mg/m^3
	antimony	$\frac{3.3 \text{ mg/m}}{13 \text{ mg/m}^3}$
7440-30-0		0.76 mg/m
	chromium	$\frac{0.70 \text{ mg/m}}{17 \text{ mg/m}^3}$
7440-48-4		$\frac{1 / mg/m}{2 mg/m^3}$
7440-50-8		$\frac{2 \text{ mg/m}}{33 \text{ mg/m}^3}$
7440-50-8	11	$\frac{33 \text{ mg/m}}{21 \text{ mg/m}^3}$
	potassium nitrate	$\frac{21 \text{ mg/m}}{100 \text{ mg/m}^3}$
	Ammonium Vanadate	0.11 mg/m
	strontium vanadate	62 mg/m^3
	boric acid	$\frac{62 \text{ mg/m}^3}{23 \text{ mg/m}^3}$
	ammonium hexafluorosilicate	$\frac{23 \text{ mg/m}^3}{130 \text{ mg/m}^3}$





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	(Contd. of page
PAC-3:	
7697-37-2 nitric acid	92 ppm
7664-39-3 hydrogen fluoride	44 ppm
471-34-1 calcium carbonate	1,300 mg/n
497-19-8 sodium carbonate	500 mg/m^3
513-77-9 barium carbonate	1,600 mg/n
554-13-2 lithium carbonate	210 mg/m^3
6156-78-1 Manganese(II) acetate tetrahydrate	740 mg/m^3
7439-89-6 iron	150 mg/m^3
7439-92-1 lead	700 mg/m^3
7439-95-4 magnesium	1,200 mg/n
7440-02-0 nickel	99 mg/m³
7440-28-0 thallium	20 mg/m^3
7440-36-0 antimony	80 mg/m^3
7440-43-9 cadmium	4.7 mg/m ³
7440-47-3 chromium	99 mg/m³
7440-48-4 cobalt	20 mg/m^3
7440-50-8 copper	200 mg/m^3
7440-66-6 zinc	120 mg/m^3
7757-79-1 potassium nitrate	600 mg/m^3
7803-55-6 Ammonium Vanadate	80 mg/m^3
10042-76-9 strontium nitrate	370 mg/m^3
10043-35-3 boric acid	830 mg/m³
16919-19-0 ammonium hexafluorosilicate	780 mg/m³

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.

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· 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

· 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.

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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: 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.

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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:	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/wate	e r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	95.3 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.2 %	
· 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.

LIS



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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

7440-43-9 cadmium

	ernational Agency for Research on Cancer)	
543-81-7	beryllium acetate	1
7439-92-1	lead	21
7440-02-0	nickel	21
7440-43-9	cadmium	1
7440-47-3	chromium	3
7440-48-4	cobalt	21
· NTP (Nati	onal Toxicology Program)	
543-81-7	beryllium acetate	1
7439-92-1	lead	i
7440-02-0	nickel	i
7440-43-9	cadmium	i
7440-48-4	cobalt	i i
· OSHA-Ca	(Occupational Safety & Health Administration)	

US



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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:

14 Transport information

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

	1 3		
	· UN-Number · DOT, ADR, IMDG, IATA	UN3264	
- 1			

· UN proper shipping name	
$\cdot DOT$	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)
· ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
	(NITRIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC
•	ACID)

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· Transport hazard class(es)

 $\cdot DOT$



· Class 8 Corrosive substances

·Label

 $\cdot ADR$



· Class 8 (C1) Corrosive substances

·Label

· IMDG, IATA



· Class 8 Corrosive substances

· Label

· 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

· 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:

 $\cdot DOT$

· Quantity limitations On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

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· 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), 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		
· Section 31.	Section 313 (Specific toxic chemical listings):		
7697-37-2	nitric acid		
7664-39-3	hydrogen fluoride		
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		
7440-36-0	antimony		
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		
7803-55-6	Ammonium Vanadate		

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10042-76-9 strontium nitrate	
TSCA (Toxic Substances Control Act):	
7732-18-5 water, distilled, conductivity or of similar purity	ACTIV
7697-37-2 nitric acid	ACTIV
7664-39-3 hydrogen fluoride	ACTIV
471-34-1 calcium carbonate	ACTIV
497-19-8 sodium carbonate	ACTIV
513-77-9 barium carbonate	ACTIV
554-13-2 lithium carbonate	ACTIV
7429-90-5 aluminium	ACTI
7439-89-6 iron	ACTIV
7439-92-1 lead	ACTIV
7439-95-4 magnesium	ACTIV
7440-02-0 nickel	ACTIV
7440-28-0 thallium	ACTIV
7440-36-0 antimony	ACTIV
7440-43-9 cadmium	ACTIV
7440-47-3 chromium	ACTIV
7440-48-4 cobalt	ACTIV
7440-50-8 copper	ACTIV
7440-66-6 zinc	ACTIV
7757-79-1 potassium nitrate	ACTIV
7803-55-6 Ammonium Vanadate	ACTIV
10042-76-9 strontium nitrate	ACTIV
10043-35-3 boric acid	ACTI
16919-19-0 ammonium hexafluorosilicate	ACTIV
Hazardous Air Pollutants	
7664-39-3 hydrogen fluoride	
7439-92-1 lead	
7440-48-4 cobalt	
Proposition 65	
Chemicals known to cause cancer:	
543-81-7 beryllium acetate	
7439-92-1 lead	
7440-02-0 nickel	
7440-43-9 cadmium	
7440-48-4 cobalt	





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Chamiaala l	nown to cause reproductive toxicity for females:	(Contd. of page
7439-92-1 1		
7439-92-1 1	nown to cause reproductive toxicity for males:	
7440-43-9		
	nown to cause developmental toxicity:	
	ithium carbonate	
7439-92-1		
7440-43-9	cadmium	
_	ic categories	
	onmental Protection Agency)	
513-77-9	barium carbonate	D, CBD(inh), NL(ora
7439-92-1	lead	B2
7440-43-9	cadmium	BI
7440-47-3	chromium	D
7440-50-8	copper	D
7440-66-6	zinc	D, I, II
10043-35-3	boric acid	I (oral)
TLV (Thres	hold Limit Value)	
513-77-9	barium carbonate	
7429-90-5	aluminium	
7439-92-1	lead	1
7440-02-0	nickel	
7440-43-9	cadmium	
7440-47-3	chromium	
7440-48-4	cobalt	
10043-35-3	boric acid	
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
	beryllium acetate	
7440-02-0 i	nickel	
7440-43-9		

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

· Hazard pictograms





GHS05

GHS07



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· 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.

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 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)

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Safety Data Sheet acc. to OSHA HCS

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

Trade name: ICP Analytical Mixture 6

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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

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