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Safety Data Sheet acc. to OSHA HCS

Printing date 04/27/2022 Reviewed on 04/27/2022

1 Identification

· Product identifier

· Trade name: Certified Reference Material - Sea Water

· Article number: CRM-SW

· 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 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	2.0%	
497-19-8	sodium carbonate	1.05%	
	· Chemical identification of the substance/preparation		
7732-18-5	water, distilled, conductivity or of similar purity	94.7435%	
7647-14-5	sodium chloride	1.9%	
7439-95-4	magnesium	0.125%	
7664-93-9	sulphuric acid	0.09%	

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471-34-1 calcium carbonate	(Contd. of pa
7757-79-1 potassium nitrate	0.038
12124-97-9 ammonium bromide	0.0063
144-62-7 oxalic acid	0.003
10042-76-9 strontium nitrate	0.0012
16919-19-0 ammonium hexafluorosilicate	0.0004
513-77-9 barium carbonate	0.000
554-13-2 lithium carbonate	0.000
584-09-8 rubidium carbonate	0.000
1344-59-8 Uranium Oxide U308	0.0002
6156-78-1 Manganese(II) acetate tetrahydrate	0.000
7429-90-5 aluminium	0.000
7439-89-6 iron	0.000
7439-92-1 lead	0.000
7440-02-0 nickel	0.000
7440-22-4 silver	0.0001
7440-38-2 arsenic	0.000
7440-43-9 cadmium	0.000
7440-47-3 chromium	0.000
7440-50-8 copper	0.000
7440-66-6 zinc	0.000
7722-76-1 Ammonium dihydrogenphosphate	0.0001
7782-49-2 selenium	0.0001
7803-55-6 Ammonium Vanadate	0.0001
10043-35-3 boric acid	0.0001
12027-06-4 ammonium iodide	0.0001

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.

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· 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
497-19-8 sodium carbonate	7.6 mg/m³
7439-95-4 magnesium	18 mg/m³
7664-93-9 sulphuric acid	0.20 mg/m^3
471-34-1 calcium carbonate	45 mg/m³
7757-79-1 potassium nitrate	9 mg/m³
12124-97-9 ammonium bromide	8.1 mg/m³
144-62-7 oxalic acid	2 mg/m ³
10042-76-9 strontium nitrate	5.7 mg/m ³
16919-19-0 ammonium hexafluorosilicate	12 mg/m^3
513-77-9 barium carbonate	2.2 mg/m³
554-13-2 lithium carbonate	3.1 mg/m ³

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1344-59-8	Uranium Oxide	(Contd. of pag 0.71 mg/r
	U3O8	
	Manganese(II) acetate tetrahydrate	13 mg/m ³
7439-89-6	iron	3.2 mg/m
7439-92-1		0.15 mg/r
7439-97-6	mercury	0.15 mg/r
7440-02-0	nickel	4.5 mg/m
7440-22-4	silver	0.3 mg/m
7440-38-2	arsenic	1.5 mg/m
7440-43-9	cadmium	0.10 mg/s
7440-47-3	chromium	1.5 mg/m
7440-50-8	copper	$3 mg/m^3$
7440-57-5	Gold	0.46 mg/s
7440-66-6	zinc	6 mg/m ³
7722-76-1	Ammonium dihydrogenphosphate	17 mg/m ²
7782-49-2	selenium	0.6 mg/m
7803-55-6	Ammonium Vanadate	0.01 mg/s
10043-35-3	boric acid	6 mg/m ³
12027-06-4	ammonium iodide	0.2 mg/m
<i>PAC-2:</i>		
7697-37-2	nitric acid	24 ppm
497-19-8	sodium carbonate	83 mg/m ³
7439-95-4	magnesium	200 mg/n
7664-93-9	sulphuric acid	8.7 mg/m
471-34-1	calcium carbonate	210 mg/n
7757-79-1	potassium nitrate	100 mg/n
12124-97-9	ammonium bromide	89 mg/m ²
144-62-7	oxalic acid	20 mg/m ²
10042-76-9	strontium nitrate	62 mg/m ²
16919-19-0	ammonium hexafluorosilicate	130 mg/n
513-77-9	barium carbonate	270 mg/n
	lithium carbonate	34 mg/m ³
1344-59-8	Uranium Oxide U3O8	10 mg/m ²
6156-78-1	Manganese(II) acetate tetrahydrate	22 mg/m ³
7439-89-6	iron	35 mg/m ³
7439-92-1	lead	120 mg/n





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7439-97-6	marcury	(Contd. of pag 1.7 mg/m
	·	
7440-02-0		50 mg/m^3
7440-22-4		170 mg/m
7440-38-2		17 mg/m^3
7440-43-9		0.76 mg/m
	chromium	17 mg/m^3
7440-50-8	**	33 mg/m^3
7440-57-5		5.1 mg/m
7440-66-6		21 mg/m ³
	Ammonium dihydrogenphosphate	190 mg/m
7782-49-2		6.6 mg/m
	Ammonium Vanadate	0.11 mg/n
10043-35-3		23 mg/m^3
12027-06-4	ammonium iodide	2.2 mg/m
<i>PAC-3:</i>		
7697-37-2	nitric acid	92 ppm
497-19-8	sodium carbonate	500 mg/m³
7439-95-4	magnesium	1,200 mg/n
7664-93-9	sulphuric acid	160 mg/m³
471-34-1	calcium carbonate	1,300 mg/n
7757-79-1	potassium nitrate	600 mg/m³
12124-97-9	ammonium bromide	530 mg/m³
144-62-7	oxalic acid	500 mg/m³
10042-76-9	strontium nitrate	370 mg/m³
16919-19-0	ammonium hexafluorosilicate	780 mg/m³
513-77-9	barium carbonate	1,600 mg/n
554-13-2	lithium carbonate	210 mg/m^3
1344-59-8	Uranium Oxide U3O8	50 mg/m³
6156-78-1	Manganese(II) acetate tetrahydrate	740 mg/m³
7439-89-6	iron	150 mg/m³
7439-92-1	lead	700 mg/m ³
7439-97-6	mercury	8.9 mg/m³
7440-02-0		99 mg/m³
7440-22-4	silver	990 mg/m³
7440-38-2		100 mg/m³
	cadmium	4.7 mg/m^3





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		(Contd. of page 6)
	chromium	99 mg/m^3
7440-50-8	copper	200 mg/m³
7440-57-5	Gold	30 mg/m³
7440-66-6	zinc	120 mg/m³
7722-76-1	Ammonium dihydrogenphosphate	$1,100 \text{ mg/m}^3$
7782-49-2	selenium	40 mg/m^3
7803-55-6	Ammonium Vanadate	80 mg/m^3
10043-35-3	boric acid	830 mg/m³
12027-06-4	ammonium iodide	13 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.
- · 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

7697-37-2 nitric acid PEL Long-term value: 5 mg/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

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[•] Additional information: The lists that were valid during the creation were used as basis.



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- · 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.

· 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: Characteristic
· Odor threshold: Not determined.

· pH-value: Not determined.

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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/wate	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	94.7 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	3.2 %	
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.

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· 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:

497-19-8 sodium carbonate

Oral LD50 4,090 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:

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

7440-38-2 arsenic

7664-93-9	sulphuric acid	
7439-92-1	lead	
7439-97-6	mercury	
7440-02-0	nickel	
7440-38-2	arsenic	
7440-43-9	cadmium	
7440-47-3	chromium	
7782-49-2	selenium	
NTP (Nati	onal Toxicology Program)	
7664-93-9	sulphuric acid	
7439-92-1	lead	
7440-02-0	nickel	
7440-38-2	arsenic	
7440-43-9	cadmium	

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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.

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

4 Transport information UN-Number	
· DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name	
$\cdot DOT$	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)
· ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGÂNIC, N.O.S (NITRIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRI 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
- 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:
- $\cdot DOT$
- 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 355	(extremely hazardous substances):
7697-37-2	nitric acid
7664-93-9	sulphuric acid
· Section 313	(Specific toxic chemical listings):
7697-37-2	nitric acid
7664-93-9	sulphuric acid
7757-79-1	potassium nitrate
10042-76-9	strontium nitrate
513-77-9	barium carbonate
554-13-2	lithium carbonate
7429-90-5	aluminium
7439-92-1	lead
7439-97-6	mercury
7440-02-0	nickel
7440-22-4	silver
7440-38-2	arsenic
7440-43-9	cadmium
7440-47-3	chromium
7440-50-8	copper
7440-66-6	zinc
7782-49-2	selenium
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7803-55-6 Ammonium Vanadate	(Contd. of pag
TSCA (Toxic Substances Control Act):	
7732-18-5 water, distilled, conductivity or of similar purity	ACTI
7697-37-2 nitric acid	ACTI
7647-14-5 sodium chloride	ACTI
497-19-8 sodium carbonate	ACTI
7439-95-4 magnesium	ACTI
7664-93-9 sulphuric acid	ACTI
471-34-1 calcium carbonate	ACTI
7757-79-1 potassium nitrate	ACTI
12124-97-9 ammonium bromide	ACTI
144-62-7 oxalic acid	ACTI
10042-76-9 strontium nitrate	ACTI
16919-19-0 ammonium hexafluorosilicate	ACTI
513-77-9 barium carbonate	ACTI
554-13-2 lithium carbonate	ACTI
584-09-8 rubidium carbonate	ACTI
1344-59-8 Uranium Oxide U3O8	ACTI
7429-90-5 aluminium	ACTI
7439-89-6 iron	ACTI
7439-92-1 lead	ACTI
7439-97-6 mercury	ACTI
7440-02-0 nickel	ACTI
7440-22-4 silver	ACTI
7440-38-2 arsenic	ACTI
7440-43-9 cadmium	ACTI
7440-47-3 chromium	ACTI
7440-50-8 copper	ACTI
7440-57-5 Gold	ACTI
7440-66-6 zinc	ACTI
7722-76-1 Ammonium dihydrogenphosphate	ACTI
7782-49-2 selenium	ACTI
Hazardous Air Pollutants	I
7439-92-1 lead	





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Duanacitia	a 65	(Contd. of page
Proposition Chemicals	known to cause cancer:	
7439-92-1		
7440-02-0		
7440-38-2		
7440-43-9	cadmium	
Chemicals	known to cause reproductive toxicity for females:	
7439-92-1	-	
Chemicals	known to cause reproductive toxicity for males:	
7439-92-1		
7440-43-9	cadmium	
Chemicals	known to cause developmental toxicity:	
	lithium carbonate	
7439-92-1	lead	
7439-97-6	mercury	
7440-43-9	cadmium	
Carcinoge	nic categories	
	ronmental Protection Agency)	
	barium carbonate	D, CBD(inh), NL(or
7439-92-1	l lead	B2
7439-97-0	mercury	D
7440-22-4	silver	D
7440-38-2	arsenic	A
7440-43-9	cadmium	B1
7440-47-3	3 chromium	D
7440-50-8	g copper	D
7440-66-6	zinc	D, I, II
7782-49-2	? selenium	D
10043-35-3	B boric acid	I (oral)
TLV (Thre	shold Limit Value)	
7664-93-9	sulphuric acid	
513-77-9	barium carbonate	
7429-90-3	aluminium	
7439-92-1	l lead	
7439-97-0	mercury	
7440-02-0	nickel	
	? arsenic	

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	cadmium	A2	
7440-47-3	chromium	A4	
10043-35-3	boric acid	A4	
· NIOSH-Ca (National Institute for Occupational Safety and Health)			
7440-02-0	nickel		
7440-38-2			
7440-43-9	cadmium		

- 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.

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.

· 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.

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Safety Data Sheet acc. to OSHA HCS

Printing date 04/27/2022 Reviewed on 04/27/2022

Trade name: Certified Reference Material - Sea Water

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· Department issuing SDS: Environment protection department.

· Contact:

High-Purity Standards Tel: 843-767-7900 Fax: 843-767-7906

· Date of preparation / last revision 04/27/2022 / -

· 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

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