

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

1 Identification

- **Product identifier**
- **Trade name:** Soil Solution A.
- **Article number:** CRM-SOIL-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

Corrosive to Metals 1 H290 May be corrosive to metals.

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

Eye Damage 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.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 1)

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)**



· **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.

· **Dangerous components:**

7697-37-2	nitric acid	4.0%
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· **Chemical identification of the substance/preparation**

7732-18-5	water, distilled, conductivity or of similar purity	95.5592%
7440-21-3	silicon	0.3%
7429-90-5	aluminium	0.05%
7440-70-2	calcium	0.035%
7439-89-6	iron	0.02%

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

		(Contd. of page 2)
7440-09-7	potassium	0.02%
7439-95-4	magnesium	0.007%
7440-23-5	sodium	0.007%
7722-76-1	Ammonium dihydrogenphosphate	0.001%
7440-39-3	barium	0.0005%
7440-66-6	zinc	0.0001%
7440-38-2	arsenic	0.00002%
7440-43-9	cadmium	0.0000003%
7440-50-8	copper	0.00003%
7439-96-5	manganese	0.00001%
7440-02-0	nickel	0.00003%
7439-92-1	lead	0.00004%
7440-36-0	antimony	0.000003%
7782-49-2	selenium	0.000001%
7440-29-1	thorium	0.00001%
7440-61-1	uranium	0.000001%
7440-62-2	vanadium	0.00001%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 3)

- **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-I:

7697-37-2	nitric acid	0.16 ppm
7440-21-3	silicon	45 mg/m ³
7439-89-6	iron	3.2 mg/m ³
7440-09-7	potassium	2.3 mg/m ³
7439-95-4	magnesium	18 mg/m ³
7440-23-5	sodium	13 mg/m ³
7722-76-1	Ammonium dihydrogenphosphate	17 mg/m ³
7440-39-3	barium	1.5 mg/m ³
7440-66-6	zinc	6 mg/m ³
7439-92-1	lead	0.15 mg/m ³
7440-02-0	nickel	4.5 mg/m ³
7440-50-8	copper	3 mg/m ³
7440-38-2	arsenic	1.5 mg/m ³
7439-96-5	manganese	3 mg/m ³
7440-29-1	thorium	30 mg/m ³
7440-36-0	antimony	1.5 mg/m ³
7440-61-1	uranium	0.6 mg/m ³
7440-62-2	vanadium	3 mg/m ³
7782-49-2	selenium	0.6 mg/m ³
7440-43-9	cadmium	0.10 mg/m ³

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 4)

· PAC-2:		
7697-37-2	<i>nitric acid</i>	24 ppm
7440-21-3	<i>silicon</i>	100 mg/m ³
7439-89-6	<i>iron</i>	35 mg/m ³
7440-09-7	<i>potassium</i>	25 mg/m ³
7439-95-4	<i>magnesium</i>	200 mg/m ³
7440-23-5	<i>sodium</i>	140 mg/m ³
7722-76-1	<i>Ammonium dihydrogenphosphate</i>	190 mg/m ³
7440-39-3	<i>barium</i>	180 mg/m ³
7440-66-6	<i>zinc</i>	21 mg/m ³
7439-92-1	<i>lead</i>	120 mg/m ³
7440-02-0	<i>nickel</i>	50 mg/m ³
7440-50-8	<i>copper</i>	33 mg/m ³
7440-38-2	<i>arsenic</i>	17 mg/m ³
7439-96-5	<i>manganese</i>	5 mg/m ³
7440-29-1	<i>thorium</i>	330 mg/m ³
7440-36-0	<i>antimony</i>	13 mg/m ³
7440-61-1	<i>uranium</i>	5 mg/m ³
7440-62-2	<i>vanadium</i>	5.8 mg/m ³
7782-49-2	<i>selenium</i>	6.6 mg/m ³
7440-43-9	<i>cadmium</i>	0.76 mg/m ³

· PAC-3:		
7697-37-2	<i>nitric acid</i>	92 ppm
7440-21-3	<i>silicon</i>	630 mg/m ³
7439-89-6	<i>iron</i>	150 mg/m ³
7440-09-7	<i>potassium</i>	150 mg/m ³
7439-95-4	<i>magnesium</i>	1,200 mg/m ³
7440-23-5	<i>sodium</i>	870 mg/m ³
7722-76-1	<i>Ammonium dihydrogenphosphate</i>	1,100 mg/m ³
7440-39-3	<i>barium</i>	1,100 mg/m ³
7440-66-6	<i>zinc</i>	120 mg/m ³
7439-92-1	<i>lead</i>	700 mg/m ³
7440-02-0	<i>nickel</i>	99 mg/m ³
7440-50-8	<i>copper</i>	200 mg/m ³
7440-38-2	<i>arsenic</i>	100 mg/m ³
7439-96-5	<i>manganese</i>	1,800 mg/m ³
7440-29-1	<i>thorium</i>	2,000 mg/m ³

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 5)

7440-36-0	antimony	80 mg/m ³
7440-61-1	uranium	30 mg/m ³
7440-62-2	vanadium	35 mg/m ³
7782-49-2	selenium	40 mg/m ³
7440-43-9	cadmium	4.7 mg/m ³

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:
7697-37-2 nitric acid

PEL	Long-term value: 5 mg/m ³ , 2 ppm
REL	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5 mg/m ³ , 2 ppm
TLV	Short-term value: (4) NIC-0.025* ppm Long-term value: (2) ppm *inh. fraction + vapor

- **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.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 6)

· **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.
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· Flammability (solid, gaseous):	Not applicable.
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· Decomposition temperature:	Not determined.
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(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 7)

· 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 at 20 °C (68 °F):	1.02658 g/cm ³ (8.56681 lbs/gal)
· Bulk density:	1,025 kg/m ³
· 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.
· Solvent content:	
Water:	95.6 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.4 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

US

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 8)

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** Strong caustic effect on skin and mucous membranes.

· **on the eye:**

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

7439-92-1	lead	2B
7440-02-0	nickel	2B
7440-38-2	arsenic	1
7440-29-1	thorium	1
7782-49-2	selenium	3
7440-43-9	cadmium	1

· **NTP (National Toxicology Program)**

7439-92-1	lead	R
7440-02-0	nickel	R
7440-38-2	arsenic	K
7440-43-9	cadmium	K

· **OSHA-Ca (Occupational Safety & Health Administration)**

7440-38-2	arsenic
7440-43-9	cadmium

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 9)

· **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**

· **ADR**

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

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

· **IMDG, IATA**

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

· **Transport hazard class(es)**

· **DOT**



· **Class**

· **Label**

8 Corrosive substances

8

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 10)

· ADR


· Class 8 (C1) Corrosive substances
· Label 8

· IMDG, IATA


· Class 8 Corrosive substances
· Label 8

· Packing group
· DOT, ADR, IMDG, IATA III

· Environmental hazards: Not applicable.

· Special precautions for user Warning: Corrosive substances
· Hazard identification number (Kemler code): 80
· EMS Number: F-A,S-B
· Segregation groups (SGGI) Acids
· Stowage Category A
· Stowage Code SW2 Clear of living quarters.

· Transport in bulk according to Annex II of MARPOL 73/78 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

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 11)

· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III
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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
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· **Section 313 (Specific toxic chemical listings):**

7697-37-2	nitric acid
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7429-90-5	aluminium
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7440-39-3	barium
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7440-66-6	zinc
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7439-92-1	lead
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7440-02-0	nickel
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7440-50-8	copper
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7440-38-2	arsenic
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7439-96-5	manganese
-----------	-----------

7440-36-0	antimony
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7440-62-2	vanadium
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7782-49-2	selenium
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7440-43-9	cadmium
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· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

7439-92-1	lead
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7439-96-5	manganese
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· **Proposition 65**

· **Chemicals known to cause cancer:**

7439-92-1	lead
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7440-02-0	nickel
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7440-38-2	arsenic
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7440-43-9	cadmium
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· **Chemicals known to cause reproductive toxicity for females:**

7439-92-1	lead
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(Contd. on page 13)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 12)

· 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	lead
7440-43-9	cadmium

· Carcinogenic categories
· EPA (Environmental Protection Agency)

7440-39-3	barium	D, CBD(inh), NL(oral)
7440-66-6	zinc	D, I, II
7439-92-1	lead	B2
7440-50-8	copper	D
7440-38-2	arsenic	A
7439-96-5	manganese	D
7782-49-2	selenium	D
7440-43-9	cadmium	B1

· TLV (Threshold Limit Value)

7429-90-5	aluminium	A4
7440-39-3	barium	A4
7439-92-1	lead	A3
7440-02-0	nickel	A5
7440-38-2	arsenic	A1
7440-61-1	uranium	A1
7440-43-9	cadmium	A2

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

7440-02-0	nickel
7440-38-2	arsenic
7440-61-1	uranium
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

(Contd. on page 14)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 13)

· 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.

· Department issuing SDS: Environment protection department.**· Contact:**

High-Purity Standards

Tel: 843-767-7900

Fax: 843-767-7906

· Date of preparation / last revision 10/19/2022**· 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

(Contd. on page 15)



Safety Data Sheet
acc. to OSHA HCS

Printing date 10/19/2022

Reviewed on 10/19/2022

Trade name: Soil Solution A.

(Contd. of page 14)

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Corrosive to Metals 1: Corrosive to metals – Category 1

Skin Corrosion 1A: Skin corrosion/irritation – Category 1A

Eye Damage 1: Serious eye damage/eye irritation – Category 1

US