

Safety Data Sheet acc. to OSHA HCS

Reviewed on 04/22/2022

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1 Identification

- · Product identifier
- · Product Name: Quality Control Standard 7A
- · Part Name:
- QC-7A QC-7A-500
- · Application of the substance / the mixture Certified Reference Material
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 Spex CertiPrep, LLC.
 203 Norcross Ave, Metuchen,
 NJ 08840 USA
 732-549-7144
 USMet-CRMSales@antylia.com
- Information department: product safety department • Emergency telephone number: Emergency Phone Number (24 hours) CHEMTREC (800-424-9300) Outside US: 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corr. 1B 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



· Signal word Danger

· Hazard-determining components of labeling: nitric acid · Hazard statements H314 Causes severe skin burns and eye damage. · Precautionary statements P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 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)

HEALTH	3	Health = 3
FIRE	0	Fire = 0
REACTIVITY	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	5.0%
7664-39-3 hydrofluoric acid	0.2%
· Chemical identification of the substance/preparation	
7732-18-5 water, distilled, conductivity or of similar purity	94.605%
7440-09-7 potassium	0.1%
7440-21-3 silicon	0.05%
7429-90-5 aluminium	0.01%
7440-23-5 sodium	0.01%
7440-39-3 barium	0.01%
7440-42-8 boron	0.01%
7440-22-4 silver	0.005%

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4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not give anything to eat or drink Do not induce vomitting
- · 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:
- Dilute with plenty of water.
- 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.

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	Protective	Action	Critoria	for	Chemicals
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· PAC-1:	
7440-09-7 potassium	2.3 mg/m ³
7440-21-3 silicon	45 mg/m ³
7440-23-5 sodium	13 mg/m ³
7440-39-3 barium	1.5 mg/m ³
7440-42-8 boron	1.9 mg/m ³
7440-22-4 silver	0.3 mg/m ³
• PAC-2:	
7440-09-7 potassium	25 mg/m ³
7440-21-3 silicon	100 mg/m ³
7440-23-5 sodium	140 mg/m ³
7440-39-3 barium	180 mg/m ³
7440-42-8 boron	21 mg/m ³
7440-22-4 silver	170 mg/m ³
· PAC-3:	
7440-09-7 potassium	150 mg/m ³
7440-21-3 silicon	630 mg/m ³
7440-23-5 sodium	870 mg/m ³
7440-39-3 barium	1,100 mg/m ³
7440-42-8 boron	130 mg/m ³
7440-22-4 silver	990 mg/m ³

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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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · 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.

· Respiratory protection:

- 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.

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- 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. • Eve protection:



Tightly sealed goggles

9 Physical and chemical properties

General Information Liquid Appearance: Form: Form: Liquid Color: According to product specification Odor: Characteristic Odor: Characteristic Odor: Not applicable. PH-value: Not applicable. Change in condition Undetermined. Boling point/Boling range: 83 °C (181.4 °F) Flash point: Not applicable. Flash point: Not applicable. Pearance: Not applicable. Atto igniting: Product is not selfigniting. Decomposition temperature: Not applicable. Atto igniting: Product is not selfigniting. Description limits: Lower: Lower: Not applicable. Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg) Density Not applicable. Vapor onsity Not applicable. Vapor density No	· Information on basic physical and c	hemical properties
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Solids content: 0.1 %		
	VOC content:	0.00 %
• Other information No further relevant information available.	Solids content:	0.1 %
	• 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.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$

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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:
- 7697-37-2 nitric acid
- Inhalative LC50/4 h 2.65 mg/l (ATE)
- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- \cdot 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
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Danger to drinking water if even small quantities leak into the ground.
- 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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

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 solution) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION)
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· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION)
· Transport hazard class(es)	
·DOT	
· Class	8 Corrosive substances
Label	8
· ADR, IMDG, IATA	
· Class	8 Corrosive substances
·Label	8
· Packing group · DOT, ADR, IMDG, IATA	111
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Stowage Code 	Warning: Corrosive substances 80 F-A,S-B Acids A SW2 Clear of living quarters.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Coa	le Not applicable.
· Transport/Additional information:	
· 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), 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 313 (Specific toxic chemical listings):	
7697-37-2 nitric acid	
7664-39-3 hydrofluoric acid	
7429-90-5 aluminium	
7440-39-3 barium	
7440-22-4 silver	
· TSCA (Toxic Substances Control Act):	
7732-18-5 water, distilled, conductivity or of similar purity	ACTIVE
7440-09-7 potassium	ACTIVE
7440-21-3 silicon	ACTIVE
7429-90-5 aluminium	ACTIVE
7440-23-5 sodium	ACTIVE
7440-39-3 barium	ACTIVE
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7440-42-8 boron	ACTIVE
7440-22-4 silver	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· 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)		
7440-39-3 barium	D, CBD(inh), NL(oral)	
7440-42-8 boron	I (oral)	
7440-22-4 silver	D	
· TLV (Threshold Limit Value)		
7429-90-5 aluminium A-		
7440-39-3 barium		
·NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the incredients is listed		

None of the ingredients is listed.

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

Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labeling:
- nitric acid
- · Hazard statements

H314 Causes severe skin burns and eye damage.

- · Precautionary statements
- P260 Do not breathe dusts or mists.
- Wash thoroughly after handling. P264
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce voniting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison center/doctor.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 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: product safety department

- · Contact:
- Spex CertiPrep, LLC.
- 1-732-549-7144

· Date of preparation / last revision 04/22/2022 / -

· 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



Product Name: Quality Control Standard 7A

IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances (AS: 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) LCS0: Lethal concentration, 50 percent LDS0: 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 Skin Corr. IB: Skin corrosion/irritation – Category IB Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Safety Data Sheet

acc. to OSHA HCS

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Reviewed on 04/22/2022

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