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Safety Data Sheet acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

| Product identifie | |
|-----------------------|---|
| Trade name: <u>CL</u> | heck Verification Standard 1 |
| Article number: | P-CV-1 |
| Details of the sup | er of the safety data sheet |
| Manufacturer/Si | ier: |
| High-Purity Stan | ls |
| 7221 Investment | e, North Charleston, SC 29418 United States |
| Telephone: +1-8- | '67-7900 |
| Fax: +1-843-767 | 96 |
| highpuritystanda | com |
| Email: info@high | itystandards.com |
| Information dep | ent: Product safety department |
| Emergency telep | e number: |
| INFOTRAC | |
| Emergency teleph | e numbers1-800-535-5053 |
| Other emergency | phone numbers 1-352-323-3500 |

2 Hazard(s) identification

· Classification of the substance or mixture

GHS05 Corrosion

Met. Corr.1H290May be corrosive to metals.Skin Corr. 1AH314Causes severe skin burns and eye damage.Eye Dam. 1H318Causes 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* 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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(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) Health = 3Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 3 Health = 3FIRE 0 Fire = 0**REACTIVITY O** 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 | 4.0% |
| · Chemical i | dentification of the substance/preparation | |
| 7732-18-5 | water, distilled, conductivity or of similar purity | 94.633% |
| 7439-95-4 | magnesium | 0.25% |
| 7440-09-7 | potassium | 0.25% |
| 7440-23-5 | sodium | 0.25% |
| 7440-70-2 | calcium | 0.25% |
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| | | (Contd. of page 2) |
|-----------|--------------------|--------------------|
| 7429-90-5 | aluminium | 0.1% |
| 7440-39-3 | barium | 0.1% |
| 7439-89-6 | iron | 0.05% |
| 638-38-0 | Magnese(II)acetate | 0.025% |
| 7440-02-0 | nickel | 0.025% |
| 7803-55-6 | Ammonium Vanadate | 0.025% |
| 7440-22-4 | silver | 0.0125% |
| 7440-50-8 | copper | 0.0125% |
| 7440-47-3 | chromium | 0.01% |
| 543-81-7 | beryllium acetate | 0.0025% |
| 7440-48-4 | cobalt | 0.0025% |
| 7440-66-6 | zinc | 0.0025% |

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.
- · 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.

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| Methods and | l material for containment and cleaning up: | (Contd. of page |
|---------------|--|-----------------------|
| | liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). | |
| Use neutraliz | | |
| | taminated material as waste according to item 13. | |
| | uate ventilation. | |
| | o other sections | |
| | 7 for information on safe handling. 8 for information on personal protection equipment. | |
| | 13 for disposal information. | |
| | ction Criteria for Chemicals | |
| PAC-1: | | |
| 7697-37-2 n | itric acid | 0.16 ppm |
| 7439-95-4 n | nagnesium | 18 mg/m ³ |
| 7440-09-7 p | potassium | 2.3 mg/m ³ |
| 7440-23-5 s | odium | 13 mg/m ³ |
| 7440-39-3 b | parium | 1.5 mg/m ³ |
| 7439-89-6 ii | ron | 3.2 mg/m ³ |
| 638-38-0 N | Magnese(II)acetate | 9.4 mg/m ³ |
| 7440-02-0 n | ickel | 4.5 mg/m ³ |
| 7803-55-6 A | Immonium Vanadate | 0.01 mg/m |
| 7440-22-4 s | ilver | 0.3 mg/m ³ |
| 7440-50-8 с | ropper | 3 mg/m ³ |
| 7440-47-3 с | hromium | 1.5 mg/m ³ |
| 7440-48-4 с | obalt | 0.18 mg/m |
| 7440-66-6 z | inc | 6 mg/m ³ |
| <i>PAC-2:</i> | | |
| 7697-37-2 n | itric acid | 24 ppm |
| 7439-95-4 n | nagnesium | 200 mg/m |
| 7440-09-7 p | potassium | 25 mg/m ³ |
| 7440-23-5 s | odium | 140 mg/m |
| 7440-39-3 b | parium | 180 mg/m |
| 7439-89-6 ii | ron | 35 mg/m ³ |
| 638-38-0 N | Magnese(II)acetate | 16 mg/m³ |
| 7440-02-0 n | | 50 mg/m ³ |
| | Immonium Vanadate | 0.11 mg/m |
| 7440-22-4 s | ilver | 170 mg/m |
| 7440-50-8 с | ** | 33 mg/m ³ |
| 7440-47-3 с | | 17 mg/m³ |
| 7440-48-4 с | pobalt | $2 mg/m^3$ |

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| | | (Contd. of page 4 |
|-----------|--------------------|-------------------------|
| 7440-66-6 | zinc | 21 mg/m ³ |
| • PAC-3: | | |
| 7697-37-2 | nitric acid | 92 ppm |
| 7439-95-4 | magnesium | 1,200 mg/m ³ |
| 7440-09-7 | potassium | 150 mg/m ³ |
| 7440-23-5 | sodium | 870 mg/m ³ |
| 7440-39-3 | barium | 1,100 mg/m ³ |
| 7439-89-6 | iron | 150 mg/m ³ |
| 638-38-0 | Magnese(II)acetate | 96 mg/m ³ |
| 7440-02-0 | nickel | 99 mg/m ³ |
| 7803-55-6 | Ammonium Vanadate | 80 mg/m ³ |
| 7440-22-4 | silver | 990 mg/m ³ |
| 7440-50-8 | copper | 200 mg/m ³ |
| 7440-47-3 | chromium | 99 mg/m ³ |
| 7440-48-4 | cobalt | 20 mg/m ³ |
| 7440-66-6 | zinc | 120 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/m³, 2 ppm

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RELShort-term value: 10 mg/m³, 4 ppm
Long-term value: 5 mg/m³, 2 ppmTLVShort-term value: 10 mg/m³, 4 ppm

Long-term value: 5.2 mg/m³, 2 ppm

• 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.

· 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 \cdot *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

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| Information on basic physical and c | hemical properties | |
|---------------------------------------|---|--|
| General Information | | |
| Appearance: | | |
| Form: | Liquid | |
| Color: Odor: | Brown Characteristic | |
| Odor 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. | |
| 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 | r): Not determined. | |
| Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| Solvent content: | | |
| Water: | 94.6 % | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gal | |
| Solids content: | 1.3 % | |

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• 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:
- Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.

· Carcinogenic categories

- 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.

| 0 | | |
|--------------|---|-------------------|
| · IARC (Inte | ernational Agency for Research on Cancer) | |
| 7440-02-0 | nickel | 2B |
| 7440-47-3 | chromium | 3 |
| 543-81-7 | beryllium acetate | 1 |
| 7440-48-4 | cobalt | 2B |
| · NTP (Nati | onal Toxicology Program) | |
| 7440-02-0 | nickel | R |
| 543-81-7 | beryllium acetate | K |
| 7440-48-4 | cobalt | R |
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· 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.*

| UN-Number DOT, ADR, IMDG, IATA | UN3264 |
|-----------------------------------|--|
| UN proper shipping name | |
| 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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| | | (Contd. of page |
|--|---|-----------------|
| Transport hazard class(es) | | |
| DOT | | |
| CORROSIVE 8 | | |
| Class | 8 Corrosive substances | |
| Label | 8 | |
| ADR | | |
| a to the second se | | |
| Class | 8 (C1) Corrosive substances | |
| Label | 8 | |
| a contraction of the second se | | |
| Class Label | 8 Corrosive substances 8 | |
| Packing group DOT, ADR, IMDG, IATA | 111 | |
| Environmental hazards: | Not applicable. | |
| Special precautions for user | Warning: Corrosive substances | |
| Hazard identification number (Kemler code): EMS Number: | 80 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 On cargo aircraft only: 60 L | |
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| ·ADR | |
| · Excepted quantities (EQ) | Code: El |
| | 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: El |
| | 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 |

15 Regulatory information

| \cdot Safety, health and environmental regulations/legislation specific for the substance or m | ıixture |
|--|---------|
| · Sara | |

| /09/-3/-2 | nitric acid | |
|--|--|---|
| Section 31 | 3 (Specific toxic chemical listings): | |
| 7697-37-2 | nitric acid | |
| 7429-90-5 | aluminium | |
| 7440-39-3 | barium | |
| 7440-02-0 | nickel | |
| 7803-55-6 | Ammonium Vanadate | |
| 7440-22-4 | silver | |
| 7440-50-8 | copper | |
| 7440-47-3 | chromium | |
| 543-81-7 | beryllium acetate | |
| 7440-48-4 | cobalt | |
| 7440-66-6 | zinc | |
| TOCAT | xic Substances Control Act): | |
| 1SCA (10 | | |
| | water, distilled, conductivity or of similar purity | ACTIV |
| 7732-18-5 | water, distilled, conductivity or of similar purity nitric acid | |
| 7732-18-5 7697-37-2 | | ACTIV |
| 7732-18-5 7697-37-2 7439-95-4 7440-09-7 | nitric acid magnesium potassium | ACTIV ACTIV |
| 7732-18-5 7697-37-2 7439-95-4 | nitric acid magnesium potassium | ACTIV ACTIV ACTIV ACTIV ACTIV |
| 7732-18-5 7697-37-2 7439-95-4 7440-09-7 | nitric acid magnesium potassium sodium | ACTIV ACTIV ACTIV |



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| 7440-39-3 | | ACTIVI |
| 7439-89-6 | | ACTIVI |
| | Magnese(II)acetate | ACTIVI |
| 7440-02-0 | | ACTIVI |
| | Ammonium Vanadate | ACTIVI |
| 7440-22-4 | | ACTIVI |
| 7440-50-8 | | ACTIVI |
| 7440-47-3 | | ACTIVI |
| 7440-48-4 | | ACTIVI |
| 7440-66-6 | zinc | ACTIVI |
| | Air Pollutants | |
| 7440-48-4 | cobalt | |
| · Proposition | | |
| | known to cause cancer: | |
| 7440-02-0 | nickel | |
| 543-81-7 | beryllium acetate | |
| 7440-48-4 | cobalt | |
| · Chemicals | known to cause reproductive toxicity for females: | |
| None of the | e ingredients is listed. | |
| · Chemicals | known to cause reproductive toxicity for males: | |
| None of the | e ingredients is listed. | |
| · Chemicals | known to cause developmental toxicity: | |
| None of the | ngredients is listed. | |
| · Carcinoger | nic categories | |
| | ronmental Protection Agency) | |
| 7440-39-3 | barium | D, CBD(inh), NL(oral |
| 7440-22-4 | silver | D |
| 7440-50-8 | copper | D |
| 7440-47-3 | chromium | D |
| 7440-66-6 | zinc | D, I, II |
| · TLV (Thre | shold Limit Value established by ACGIH) | |
| 7429-90-5 | | A |
| 7440-39-3 | barium | A |
| 7440-02-0 | nickel | A. |
| 7440-47-3 | | A |
| 7440-48-4 | cobalt | A |
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| | (National Institute for Occupational Safety and Health) |
| 7440-02-0 | nickel |
| 543-81-7 | beryllium acetate |
| GHS label Hazard pic | <i>elements</i> The product is classified and labeled according to the Globally Harmonized System (GHS). <i>tograms</i> |
| | |
| 77 | |
| GHS05 | |
| 011505 | |
| Signal wor | d Danger |
| | termining components of labeling: |
| nitric acid | |
| Hazard sta | |
| | be corrosive to metals. |
| | es severe skin burns and eye damage. |
| | ary statements |
| | n original container. |
| | athe dusts or mists. |
| | ughly after handling. |
| | ctive gloves/protective clothing/eye protection/face protection. |
| | d: Rinse mouth. Do NOT induce vomiting. |
| | or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| | D: Remove person to fresh air and keep comfortable for breathing. |
| | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to d |
| Continue ri | 0 |
| | y call a poison center/doctor. |
| | atment (see on this label). |
| | uminated clothing before reuse. |
| | lage to prevent material damage. |
| Store locke | |
| | rrosive resistant container with a resistant inner liner. |
| | contents/container in accordance with local/regional/national/international regulations. |
| Chemical s | afety 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

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| D | ate of preparation / last revision 07/13/2021 / - |
| | bbreviations and acronyms: |
| | DR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internatio |
| | arriage of Dangerous Goods by Road) |
| | Infage of Dungerous Goods by Road IDG: International Maritime Code for Dangerous Goods |
| | OT: US Department of Transportation |
| | ITA: International Air Transport Association |
| | CGIH: American Conference of Governmental Industrial Hygienists |
| | INECS: European Inventory of Existing Commercial Chemical Substances |
| | LINCS: European List of Notified Chemical Substances |
| | AS: Chemical Abstracts Service (division of the American Chemical Society) |
| | FPA: National Fire Protection Association (USA) |
| | MIS: Hazardous Materials Identification System (USA) |
| | OC: Volatile Organic Compounds (USA, EU) |
| | BT: Persistent, Bioaccumulative and Toxic |
| | PvB: very Persistent and very Bioaccumulative |
| N | IOSH: National Institute for Occupational Safety |
| O_{\star} | SHA: Occupational Safety & Health |
| TI | LV: Threshold Limit Value |
| Pl | EL: Permissible Exposure Limit |
| RI | EL: Recommended Exposure Limit |
| М | let. Corr.1: Corrosive to metals – Category 1 |
| Sk | xin Corr. 1A: Skin corrosion/irritation – Category 1A |
| Εı | ve Dam. 1: Serious eye damage/eye irritation – Category 1 |

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