

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/21/2019

Reviewed on 02/21/2019

1 Identification

- **Product identifier**
- **Product Name:** Initial Calibration Verification Standard 1
- **Part Number:** CL-ICV-1
- **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
- **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**



GHS05 Corrosion

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**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labeling:**
nitric acid
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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).
Store locked up.
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

- **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.

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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%
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· **Chemical identification of the substance/preparation**

87-69-4	(+)-tartaric acid	0.2%
7440-09-7	potassium	0.1%
7440-70-2	Calcium from Calcium carbonate	0.1%
497-19-8	sodium carbonate	0.1%
7440-24-6	Strontium from Strontium carbonate	0.1%
7439-89-6	iron	0.1%
7439-95-4	magnesium	0.1%
7440-41-7	Beryllium from Beryllium Acetate	0.001%
7440-36-0	antimony	0.001%
7440-39-3	Barium from Barium carbonate	0.001%
7440-61-1	Uranium from Uranyl Nitrate Hexahydrate	0.001%
7429-90-5	aluminium	0.001%
7782-49-2	selenium	0.001%
7440-38-2	arsenic	0.001%
7440-48-4	cobalt	0.001%
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	0.001%
7440-66-6	zinc powder -zinc dust (stabilized)	0.001%
7439-96-5	manganese	0.001%
7440-02-0	nickel	0.001%
7440-50-8	copper	0.001%
7439-92-1	Lead from Lead Oxide	0.001%
7440-43-9	cadmium (non-pyrophoric)	0.001%
7440-22-4	silver	0.001%
7439-98-7	molybdenum	0.001%
7440-28-0	Thallium from Thallium nitrate	0.001%
7440-29-1	Thorium from Thorium nitrate hydrate	0.001%
7440-62-2	Vanadium from Ammonium trioxovanadate	0.001%
7732-18-5	water, distilled, conductivity or of similar purity	94.18%

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 vomiting
- **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.

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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
87-69-4	(+)-tartaric acid	1.6 mg/m ³
7440-09-7	potassium	2.3 mg/m ³
497-19-8	sodium carbonate	7.6 mg/m ³
7440-24-6	Strontium from Strontium carbonate	30 mg/m ³
7439-89-6	iron	3.2 mg/m ³
7439-95-4	magnesium	18 mg/m ³
7440-41-7	Beryllium from Beryllium Acetate	0.0023 mg/m ³
7440-36-0	antimony	1.5 mg/m ³
7440-39-3	Barium from Barium carbonate	1.5 mg/m ³
7440-61-1	Uranium from Uranyl Nitrate Hexahydrate	0.6 mg/m ³
7782-49-2	selenium	0.6 mg/m ³
7440-38-2	arsenic	1.5 mg/m ³
7440-48-4	cobalt	0.18 mg/m ³
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	1.5 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	6 mg/m ³
7439-96-5	manganese	3 mg/m ³
7440-02-0	nickel	4.5 mg/m ³
7440-50-8	copper	3 mg/m ³
7439-92-1	Lead from Lead Oxide	0.15 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	0.10 mg/m ³
7440-22-4	silver	0.3 mg/m ³
7439-98-7	molybdenum	30 mg/m ³
7440-28-0	Thallium from Thallium nitrate	0.06 mg/m ³
7440-29-1	Thorium from Thorium nitrate hydrate	30 mg/m ³
7440-62-2	Vanadium from Ammonium trioxovanadate	3 mg/m ³

· **PAC-2:**

7697-37-2	nitric acid	24 ppm
87-69-4	(+)-tartaric acid	17 mg/m ³
7440-09-7	potassium	25 mg/m ³
497-19-8	sodium carbonate	83 mg/m ³
7440-24-6	Strontium from Strontium carbonate	330 mg/m ³
7439-89-6	iron	35 mg/m ³
7439-95-4	magnesium	200 mg/m ³
7440-41-7	Beryllium from Beryllium Acetate	0.025 mg/m ³
7440-36-0	antimony	13 mg/m ³
7440-39-3	Barium from Barium carbonate	180 mg/m ³
7440-61-1	Uranium from Uranyl Nitrate Hexahydrate	5 mg/m ³
7782-49-2	selenium	6.6 mg/m ³
7440-38-2	arsenic	17 mg/m ³
7440-48-4	cobalt	2 mg/m ³

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7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	17 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	21 mg/m ³
7439-96-5	manganese	5 mg/m ³
7440-02-0	nickel	50 mg/m ³
7440-50-8	copper	33 mg/m ³
7439-92-1	Lead from Lead Oxide	120 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	0.76 mg/m ³
7440-22-4	silver	170 mg/m ³
7439-98-7	molybdenum	330 mg/m ³
7440-28-0	Thallium from Thallium nitrate	3.3 mg/m ³
7440-29-1	Thorium from Thorium nitrate hydrate	330 mg/m ³
7440-62-2	Vanadium from Ammonium trioxovanadate	5.8 mg/m ³
· PAC-3:		
7697-37-2	nitric acid	92 ppm
87-69-4	(+)-tartaric acid	100 mg/m ³
7440-09-7	potassium	150 mg/m ³
497-19-8	sodium carbonate	500 mg/m ³
7440-24-6	Strontium from Strontium carbonate	2,000 mg/m ³
7439-89-6	iron	150 mg/m ³
7439-95-4	magnesium	1,200 mg/m ³
7440-41-7	Beryllium from Beryllium Acetate	0.1 mg/m ³
7440-36-0	antimony	80 mg/m ³
7440-39-3	Barium from Barium carbonate	1,100 mg/m ³
7440-61-1	Uranium from Uranyl Nitrate Hexahydrate	30 mg/m ³
7782-49-2	selenium	40 mg/m ³
7440-38-2	arsenic	100 mg/m ³
7440-48-4	cobalt	20 mg/m ³
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	99 mg/m ³
7440-66-6	zinc powder -zinc dust (stabilized)	120 mg/m ³
7439-96-5	manganese	1,800 mg/m ³
7440-02-0	nickel	99 mg/m ³
7440-50-8	copper	200 mg/m ³
7439-92-1	Lead from Lead Oxide	700 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	4.7 mg/m ³
7440-22-4	silver	990 mg/m ³
7439-98-7	molybdenum	2,000 mg/m ³
7440-28-0	Thallium from Thallium nitrate	20 mg/m ³
7440-29-1	Thorium from Thorium nitrate hydrate	2,000 mg/m ³
7440-62-2	Vanadium from Ammonium trioxovanadate	35 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.

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· **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 ppmREL Short-term value: 10 mg/m³, 4 ppmLong-term value: 5 mg/m³, 2 ppmTLV Short-term value: 10 mg/m³, 4 ppmLong-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.

· **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.

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· **Odour Threshold:** Not applicable.· **pH-value:** Not applicable.· **Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** 83 °C (181.4 °F)· **Flash point:** Not applicable.· **Flammability (solid, gaseous):** Not applicable.· **Decomposition temperature:** Not applicable.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.

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· Explosion limits:	
Lower:	Not applicable.
Upper:	Not applicable.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F)	1.03655 g/cm ³ (8.65001 lbs/gal)
· Relative density	Not applicable.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not applicable.	
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Water:	94.2 %
VOC content:	0.00 %
· Solids content: 0.8 %	
· 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:** 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
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
7440-41-7	Beryllium from Beryllium Acetate	1
7782-49-2	selenium	3
7440-38-2	arsenic	1
7440-48-4	cobalt	2B
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	3
7440-02-0	nickel	2B
7439-92-1	Lead from Lead Oxide	2B
7440-43-9	cadmium (non-pyrophoric)	1
7440-29-1	Thorium from Thorium nitrate hydrate	1
· NTP (National Toxicology Program)		
7440-41-7	Beryllium from Beryllium Acetate	K
7440-38-2	arsenic	K

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7440-48-4	cobalt	R
7440-02-0	nickel	R
7439-92-1	Lead from Lead Oxide	R
7440-43-9	cadmium (non-pyrophoric)	K
· OSHA-Ca (Occupational Safety & Health Administration)		
7440-38-2	arsenic	
7440-43-9	cadmium (non-pyrophoric)	


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.

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name	
· DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid solution)
· ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION)
· Transport hazard class(es)	
· DOT, ADR, 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
· Danger code (Kemler):	80
· EMS Number:	F-A,S-B
· Segregation groups	Acids

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· 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:	
· 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.S. (NITRIC ACID SOLUTION), 8, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· **Section 313 (Specific toxic chemical listings):**

7697-37-2	nitric acid
7440-41-7	Beryllium from Beryllium Acetate
7440-36-0	antimony
7440-39-3	Barium from Barium carbonate
7429-90-5	aluminium
7782-49-2	selenium
7440-38-2	arsenic
7440-48-4	cobalt
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate
7440-66-6	zinc powder -zinc dust (stabilized)
7439-96-5	manganese
7440-02-0	nickel
7440-50-8	copper
7439-92-1	Lead from Lead Oxide
7440-43-9	cadmium (non-pyrophoric)
7440-22-4	silver
7440-28-0	Thallium from Thallium nitrate
7440-62-2	Vanadium from Ammonium trioxovanadate

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

7440-41-7	Beryllium from Beryllium Acetate
7440-38-2	arsenic
7440-48-4	cobalt
7440-02-0	nickel
7439-92-1	Lead from Lead Oxide
7440-43-9	cadmium (non-pyrophoric)

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

7440-43-9	cadmium (non-pyrophoric)
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· **Chemicals known to cause developmental toxicity:**

7440-43-9	cadmium (non-pyrophoric)
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

7440-41-7	Beryllium from Beryllium Acetate	B1, K/L(inh), CBD(oral)
7440-39-3	Barium from Barium carbonate	D, CBD(inh), NL(oral)
7782-49-2	selenium	D
7440-38-2	arsenic	A
7440-66-6	zinc powder -zinc dust (stabilized)	D, I, II
7439-96-5	manganese	D
7440-50-8	copper	D
7439-92-1	Lead from Lead Oxide	B2
7440-43-9	cadmium (non-pyrophoric)	B1
7440-22-4	silver	D

· **TLV (Threshold Limit Value established by ACGIH)**

7440-39-3	Barium from Barium carbonate	A4
7440-61-1	Uranium from Uranyl Nitrate Hexahydrate	A1
7429-90-5	aluminium	A4
7440-38-2	arsenic	A1
7440-48-4	cobalt	A3
7440-02-0	nickel	A5
7439-92-1	Lead from Lead Oxide	A3
7440-43-9	cadmium (non-pyrophoric)	A2
7439-98-7	molybdenum	A3

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

7440-61-1	Uranium from Uranyl Nitrate Hexahydrate	
7440-38-2	arsenic	
7440-02-0	nickel	
7440-43-9	cadmium (non-pyrophoric)	

· **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**

H314 Causes severe skin burns and eye damage.

· **Precautionary statements**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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).

Store locked up.

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** 02/21/2019 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

US