Safety Data Sheet
acc. to OSHA HCS

Revision date: 04/17/2025

*
1 Identification

· **Product identifier**

· **Product Name: ICP-MS Calibration Standard**

· **Part no. :** IMS-102
· **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA

· **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
· **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

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2 Hazard(s) identification

· **Classification of the substance or mixture**


GHS05 Corrosion

Corrosive to Metals 1 H290 May be corrosive to metals.
Eye Damage 1 H318 Causes serious eye damage.


GHS07

Skin Irritation 2 H315 Causes skin irritation.

· **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.
H315 Causes skin irritation.
H318 Causes serious eye damage.
· **Precautionary statements**
P280 Wear protective gloves / eye protection / face protection.
P234 Keep only in original container.
P264 Wash thoroughly after handling.
P310 Immediately call a poison center/doctor.

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P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P302+P352	If on skin: Wash with plenty of water.
P390	Absorb spillage to prevent material damage.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P406	Store in corrosive resistant container with a resistant inner liner.

· **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	4.95%

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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:** 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:** If symptoms persist consult 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.

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5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

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· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
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 section 13.
· **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
7664-39-3	hydrogen fluoride	1.0 ppm
471-34-1	calcium carbonate	45 mg/m³
554-13-2	lithium carbonate	3.1 mg/m³
1327-53-3	diarsenic trioxide	0.27 mg/m³
7440-55-3	gallium	30 mg/m³
7440-69-9	bismuth	15 mg/m³
7440-74-6	indium	0.3 mg/m³
7446-08-4	selenium dioxide	0.84 mg/m³
7631-99-4	sodium nitrate	4.1 mg/m³
7757-79-1	potassium nitrate	9 mg/m³
7761-88-8	silver nitrate	0.047 mg/m³
7782-61-8	iron (III) nitrate nonahydrate	22 mg/m³
7784-27-2	aluminium nitrate	83 mg/m³
7789-18-6	cesium nitrate	7.2 mg/m³
7803-55-6	ammonium trioxovanadate	0.01 mg/m³
10022-31-8	barium nitrate	2.9 mg/m³
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	0.27 mg/m³
10026-22-9	cobalt (II) nitrate hexahydrate	0.3 mg/m³
10042-76-9	strontium nitrate	5.7 mg/m³
10099-74-8	lead dinitrate	0.24 mg/m³
10102-45-1	thallium nitrate	0.078 mg/m³
10196-18-6	zinc(II) nitrate hexahydrate	27 mg/m³

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10377-66-9	manganese dinitrate	9.8 mg/m³
13126-12-0	rubidium nitrate	14 mg/m³
13446-18-9	magnesium nitrate hexahydrate	16 mg/m³
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	1.5 mg/m³
13520-83-7	uranyl nitrate, hexahydrate	1.3 mg/m³

· **PAC-2:**

7697-37-2	nitric acid	24 ppm
7664-39-3	hydrogen fluoride	24 ppm
471-34-1	calcium carbonate	210 mg/m³
554-13-2	lithium carbonate	11 ppm
1327-53-3	diarsenic trioxide	3.0 mg/m³
7440-55-3	gallium	330 mg/m³
7440-69-9	bismuth	170 mg/m³
7440-74-6	indium	3.3 mg/m³
7446-08-4	selenium dioxide	1.6 mg/m³
7631-99-4	sodium nitrate	45 mg/m³
7757-79-1	potassium nitrate	100 mg/m³
7761-88-8	silver nitrate	0.9 mg/m³
7782-61-8	iron (III) nitrate nonahydrate	110 mg/m³
7784-27-2	aluminium nitrate	920 mg/m³
7789-18-6	cesium nitrate	79 mg/m³
7803-55-6	ammonium trioxovanadate	0.11 mg/m³
10022-31-8	barium nitrate	350 mg/m³
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	2.1 mg/m³
10026-22-9	cobalt (II) nitrate hexahydrate	23 mg/m³
10042-76-9	strontium nitrate	62 mg/m³
10099-74-8	lead dinitrate	180 mg/m³
10102-45-1	thallium nitrate	4.3 mg/m³
10196-18-6	zinc(II) nitrate hexahydrate	300 mg/m³
10377-66-9	manganese dinitrate	16 mg/m³
13126-12-0	rubidium nitrate	150 mg/m³
13446-18-9	magnesium nitrate hexahydrate	180 mg/m³
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	53 mg/m³
13520-83-7	uranyl nitrate, hexahydrate	7 mg/m³

· **PAC-3:**

7697-37-2	nitric acid	92 ppm
7664-39-3	hydrogen fluoride	44 ppm
471-34-1	calcium carbonate	1,300 mg/m³
554-13-2	lithium carbonate	68 ppm
1327-53-3	diarsenic trioxide	9.1 mg/m³
7440-55-3	gallium	2,000 mg/m³

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7440-69-9	bismuth	990 mg/m³
7440-74-6	indium	20 mg/m³
7446-08-4	selenium dioxide	9.5 mg/m³
7631-99-4	sodium nitrate	270 mg/m³
7757-79-1	potassium nitrate	600 mg/m³
7761-88-8	silver nitrate	5.4 mg/m³
7782-61-8	iron (III) nitrate nonahydrate	640 mg/m³
7784-27-2	aluminium nitrate	5,500 mg/m³
7789-18-6	cesium nitrate	470 mg/m³
7803-55-6	ammonium trioxovanadate	80 mg/m³
10022-31-8	barium nitrate	2,100 mg/m³
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	13 mg/m³
10026-22-9	cobalt (II) nitrate hexahydrate	140 mg/m³
10042-76-9	strontium nitrate	370 mg/m³
10099-74-8	lead dinitrate	1,100 mg/m³
10102-45-1	thallium nitrate	26 mg/m³
10196-18-6	zinc(II) nitrate hexahydrate	1,800 mg/m³
10377-66-9	manganese dinitrate	96 mg/m³
13126-12-0	rubidium nitrate	920 mg/m³
13446-18-9	magnesium nitrate hexahydrate	1,100 mg/m³
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	320 mg/m³
13520-83-7	uranyl nitrate, hexahydrate	42 mg/m³

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7 Handling and storage

· **Handling:**
· **Precautions for safe handling** No special precautions are necessary if used correctly.
· **Information about protection against explosions and fires:** No special measures required.

· **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.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 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 ppm
REL	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm
TLV	Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm NIC-A4

· **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 skin.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
· **Protection of hands:**
Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.
· **Material of gloves**
For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness
· **Penetration time of glove material**
For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours
· **Eye protection:**

Tightly sealed goggles

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**
Form: Fluid

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Color:	According to product specification
· **Odor:**	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.
· **Ignition temperature:**	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:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic at 20 °C (68 °F):	0.952 mPas
Kinematic:	Not determined.
· **Solvent content:**	
Water:	95.0 %
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· **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.

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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	67 mg/L (rat)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** 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:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
543-81-7	acetic acid beryllium salt	1
1327-53-3	diarsenic trioxide	1
7446-08-4	selenium dioxide	3
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	1
10026-22-9	cobalt (II) nitrate hexahydrate	2B
10099-74-8	lead dinitrate	2A
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	1

· **NTP (National Toxicology Program)**		
543-81-7	acetic acid beryllium salt	K
1327-53-3	diarsenic trioxide	K
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	K
10099-74-8	lead dinitrate	R
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	K

· **OSHA-Ca (Occupational Safety & Health Administration)**	
1327-53-3	diarsenic trioxide
10022-68-1	Nitric acid, cadmium salt, tetrahydrate

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.

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· **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.

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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.

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14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN3264
· **UN proper shipping name**	
· **DOT**	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**	8 Corrosive substances
· **Label**	8
· **IMDG, IATA**	

· **Class**	8 Corrosive substances
· **Label**	8
· **Packing group**	
· **DOT, IMDG, IATA**	III

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· **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**	(SGG1) Acids
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **Segregation Code**	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· **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
· **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), 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
7664-39-3	hydrogen fluoride
1327-53-3	diarsenic trioxide

· **Section 313 (Specific toxic chemical listings):**	
7697-37-2	nitric acid
7664-39-3	hydrogen fluoride
543-81-7	acetic acid beryllium salt
554-13-2	lithium carbonate
1327-53-3	diarsenic trioxide
7446-08-4	selenium dioxide
7757-79-1	potassium nitrate
7761-88-8	silver nitrate
7782-61-8	iron (III) nitrate nonahydrate

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7784-27-2	aluminium nitrate
7789-02-8	chromium (III) nitrate nonahydrate
7789-18-6	cesium nitrate
7803-55-6	ammonium trioxovanadate
10022-31-8	barium nitrate
10022-68-1	Nitric acid, cadmium salt, tetrahydrate
10026-22-9	cobalt (II) nitrate hexahydrate
10031-43-3	cupric nitrate
10042-76-9	strontium nitrate
10099-74-8	lead dinitrate
10102-45-1	thallium nitrate
10196-18-6	zinc(II) nitrate hexahydrate
10377-66-9	manganese dinitrate
13126-12-0	rubidium nitrate
13446-18-9	magnesium nitrate hexahydrate
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate

· **TSCA (Toxic Substances Control Act):**		
7732-18-5	water	ACTIVE
7697-37-2	nitric acid	ACTIVE
7664-39-3	hydrogen fluoride	ACTIVE
471-34-1	calcium carbonate	ACTIVE
554-13-2	lithium carbonate	ACTIVE
1327-53-3	diarsenic trioxide	ACTIVE
7440-55-3	gallium	ACTIVE
7440-69-9	bismuth	ACTIVE
7440-74-6	indium	ACTIVE
7446-08-4	selenium dioxide	ACTIVE
7631-99-4	sodium nitrate	ACTIVE
7757-79-1	potassium nitrate	ACTIVE
7761-88-8	silver nitrate	ACTIVE
7789-18-6	cesium nitrate	ACTIVE
7803-55-6	ammonium trioxovanadate	ACTIVE
10022-31-8	barium nitrate	ACTIVE
10042-76-9	strontium nitrate	ACTIVE
10099-74-8	lead dinitrate	ACTIVE
10102-45-1	thallium nitrate	ACTIVE
10377-66-9	manganese dinitrate	ACTIVE
13126-12-0	rubidium nitrate	ACTIVE

· **Hazardous Air Pollutants**	
7664-39-3	hydrogen fluoride
1327-53-3	diarsenic trioxide

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7446-08-4	selenium dioxide
10022-68-1	Nitric acid, cadmium salt, tetrahydrate
10026-22-9	cobalt (II) nitrate hexahydrate
10099-74-8	lead dinitrate
10377-66-9	manganese dinitrate

· **Proposition 65**

· **Chemicals known to cause cancer:**	
543-81-7	acetic acid beryllium salt
1327-53-3	diarsenic trioxide
10022-68-1	Nitric acid, cadmium salt, tetrahydrate
10099-74-8	lead dinitrate
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**	
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate

· **Chemicals known to cause developmental toxicity:**	
554-13-2	lithium carbonate
1327-53-3	diarsenic trioxide
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**		
1327-53-3	diarsenic trioxide	A
7446-08-4	selenium dioxide	D
10022-31-8	barium nitrate	D, CBD(inh), NL(oral)
10099-74-8	lead dinitrate	B2
10102-45-1	thallium nitrate	II
10377-66-9	manganese dinitrate	D

· **TLV (Threshold Limit Value)**		
1327-53-3	diarsenic trioxide	A1
10022-31-8	barium nitrate	A4
10099-74-8	lead dinitrate	A3
13520-83-7	uranyl nitrate, hexahydrate	A1

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
543-81-7	acetic acid beryllium salt
1327-53-3	diarsenic trioxide
10022-68-1	Nitric acid, cadmium salt, tetrahydrate
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate
13520-83-7	uranyl nitrate, hexahydrate

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Department issuing SDS:** Document Control / Regulatory
· **Contact:** pdl-acg-regulatory-cq@agilent.com
· **Date of preparation / last revision** 04/17/2025 / 7
· **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
Corrosive to Metals 1: Corrosive to metals – Category 1
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
· *** Data compared to the previous version altered.**