Safety Data Sheet
acc. to OSHA HCS

Revision date: 09/29/2025

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1 Identification

· **Product identifier**

· **Product Name: ICP Calibration Standard (125 mL)**

· **Part no. :** ICM-108
· **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**


GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.


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


GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
nitric acid
acetic acid beryllium salt
· **Hazard statements**
H290 May be corrosive to metals.
H315 Causes skin irritation.

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H318 Causes serious eye damage.
H350 May cause cancer.

· **Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P234	Keep only in original container.
P264	Wash thoroughly after handling.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a poison center/doctor.
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.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
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

· **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%
87-69-4	(+)-tartaric acid	2.0%
543-81-7	acetic acid beryllium salt	0.141%
7664-39-3	hydrogen fluoride	0.1%

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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.
· **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:** 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.
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/m³
13446-18-9	magnesium nitrate hexahydrate	16 mg/m³
7664-39-3	hydrogen fluoride	1.0 ppm
7782-61-8	iron (III) nitrate nonahydrate	22 mg/m³
554-13-2	lithium carbonate	3.1 mg/m³
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	1.5 mg/m³
10026-22-9	cobalt (II) nitrate hexahydrate	0.3 mg/m³
10196-18-6	zinc(II) nitrate hexahydrate	27 mg/m³
10377-66-9	manganese dinitrate	9.8 mg/m³

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3251-23-8	copper dinitrate	8.9 mg/m³
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	1.2 mg/m3
471-34-1	calcium carbonate	45 mg/m³
10042-76-9	strontium nitrate	5.7 mg/m³
7803-55-6	ammonium trioxovanadate	0.058 mg/m3
10099-74-8	lead dinitrate	0.24 mg/m³
1313-27-5	molybdenum trioxide	2.3 mg/m³
7446-08-4	selenium dioxide	0.84 mg/m³
1327-53-3	diarsenic trioxide	0.27 mg/m³
10102-45-1	thallium nitrate	0.078 mg/m³
7440-36-0	antimony	1.5 mg/m³

· **PAC-2:**

7697-37-2	nitric acid	24 ppm
87-69-4	(+)-tartaric acid	17 mg/m³
13446-18-9	magnesium nitrate hexahydrate	180 mg/m³
7664-39-3	hydrogen fluoride	24 ppm
7782-61-8	iron (III) nitrate nonahydrate	110 mg/m³
554-13-2	lithium carbonate	11 ppm
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	53 mg/m³
10026-22-9	cobalt (II) nitrate hexahydrate	23 mg/m³
10196-18-6	zinc(II) nitrate hexahydrate	300 mg/m³
10377-66-9	manganese dinitrate	16 mg/m³
3251-23-8	copper dinitrate	31 mg/m³
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	13 mg/m3
471-34-1	calcium carbonate	210 mg/m³
10042-76-9	strontium nitrate	62 mg/m³
7803-55-6	ammonium trioxovanadate	0.64 mg/m3
10099-74-8	lead dinitrate	180 mg/m³
1313-27-5	molybdenum trioxide	43 mg/m³
7446-08-4	selenium dioxide	2.2 mg/m3
1327-53-3	diarsenic trioxide	3.0 mg/m3
10102-45-1	thallium nitrate	4.3 mg/m³
7440-36-0	antimony	13 mg/m³

· **PAC-3:**

7697-37-2	nitric acid	92 ppm
87-69-4	(+)-tartaric acid	100 mg/m³
13446-18-9	magnesium nitrate hexahydrate	1,100 mg/m³
7664-39-3	hydrogen fluoride	44 ppm
7782-61-8	iron (III) nitrate nonahydrate	640 mg/m³
554-13-2	lithium carbonate	68 ppm
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	320 mg/m³

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10026-22-9	cobalt (II) nitrate hexahydrate	140 mg/m³
10196-18-6	zinc(II) nitrate hexahydrate	1,800 mg/m³
10377-66-9	manganese dinitrate	98 mg/m3
3251-23-8	copper dinitrate	190 mg/m³
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	78 mg/m3
471-34-1	calcium carbonate	1,300 mg/m³
10042-76-9	strontium nitrate	370 mg/m³
7803-55-6	ammonium trioxovanadate	12 mg/m3
10099-74-8	lead dinitrate	1,100 mg/m³
1313-27-5	molybdenum trioxide	260 mg/m³
7446-08-4	selenium dioxide	13 mg/m3
1327-53-3	diarsenic trioxide	9.1 mg/m3
10102-45-1	thallium nitrate	26 mg/m³
7440-36-0	antimony	80 mg/m³

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7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
· **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.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

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: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm

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7664-39-3 hydrogen fluoride	
PEL	Long-term value: 1* mg/m³, 3 ppm as F, *sulfuric acid
REL	Long-term value: 2.5 mg/m³, 3 ppm Ceiling limit value: 5* mg/m³, 6* ppm *15-min, as F
TLV	Long-term value: 0.5 ppm Ceiling limit value: 2 ppm as F; Skin, BEI

· **Ingredients with biological limit values:**

7664-39-3 hydrogen fluoride	
BEI	2 mg/L Medium: urine Time: prior to shift Parameter: Fluorides (background, non-specific) 3 mg/L Medium: urine Time: end of shift Parameter: Fluorides (background, non-specific)

· **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.
Store protective clothing separately.
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

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· **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
Color:	Colorless
· **Odor:**	Odorless
· **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:**	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:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Water:	92.0 %
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal

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Solids content:	2.9 %
· **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.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Oral	LD50	1,276,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg
Inhalative	LC50/4 h	500 mg/L

7697-37-2 nitric acid		
Inhalative	LC50/4 h	67 mg/L (rat)

7664-39-3 hydrogen fluoride		
Oral	LD50	1,276 mg/kg (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
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	1
10026-22-9	cobalt (II) nitrate hexahydrate	2B
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	1
10099-74-8	lead dinitrate	2A
1313-27-5	molybdenum trioxide	2B
7446-08-4	selenium dioxide	3

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1327-53-3	diarsenic trioxide	1

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

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

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.

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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)

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· **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
· **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**
· **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
543-81-7	acetic acid beryllium salt
13446-18-9	magnesium nitrate hexahydrate
7789-02-8	chromium (III) nitrate nonahydrate
7664-39-3	hydrogen fluoride
7782-61-8	iron (III) nitrate nonahydrate
554-13-2	lithium carbonate
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate
10026-22-9	cobalt (II) nitrate hexahydrate
10196-18-6	zinc(II) nitrate hexahydrate
10377-66-9	manganese dinitrate
3251-23-8	copper dinitrate
10022-68-1	Nitric acid, cadmium salt, tetrahydrate
10042-76-9	strontium nitrate
7803-55-6	ammonium trioxovanadate
10099-74-8	lead dinitrate
1313-27-5	molybdenum trioxide
7446-08-4	selenium dioxide
1327-53-3	diarsenic trioxide
10102-45-1	thallium nitrate
7440-36-0	antimony

· **TSCA (Toxic Substances Control Act):**		
7732-18-5	water	ACTIVE
7697-37-2	nitric acid	ACTIVE
87-69-4	(+)-tartaric acid	ACTIVE
7664-39-3	hydrogen fluoride	ACTIVE
554-13-2	lithium carbonate	ACTIVE
16962-40-6	ammonium hexafluorotitanate	ACTIVE
10377-66-9	manganese dinitrate	ACTIVE
3251-23-8	copper dinitrate	ACTIVE
471-34-1	calcium carbonate	ACTIVE
10042-76-9	strontium nitrate	ACTIVE

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7803-55-6	ammonium trioxovanadate	ACTIVE
10099-74-8	lead dinitrate	ACTIVE
1313-27-5	molybdenum trioxide	ACTIVE
7446-08-4	selenium dioxide	ACTIVE
1327-53-3	diarsenic trioxide	ACTIVE
10102-45-1	thallium nitrate	ACTIVE
7440-36-0	antimony	ACTIVE

· **Hazardous Air Pollutants**	
7664-39-3	hydrogen fluoride
10026-22-9	cobalt (II) nitrate hexahydrate
10377-66-9	manganese dinitrate
10022-68-1	Nitric acid, cadmium salt, tetrahydrate
10099-74-8	lead dinitrate
7446-08-4	selenium dioxide
1327-53-3	diarsenic trioxide

· **Proposition 65**

· **Chemicals known to cause cancer:**	
543-81-7	acetic acid beryllium salt
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate
10022-68-1	Nitric acid, cadmium salt, tetrahydrate
10099-74-8	lead dinitrate
1313-27-5	molybdenum trioxide
1327-53-3	diarsenic trioxide

· **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
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate
1327-53-3	diarsenic trioxide

· **Carcinogenic categories**

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

· **TLV (Threshold Limit Value)**		
10099-74-8	lead dinitrate	A3
1327-53-3	diarsenic trioxide	A1

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

· **National regulations:**
· **Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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** 09/29/2025 / 8
· **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
BEI: Biological 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
Carcinogenicity 1A: Carcinogenicity – Category 1A
· *** Data compared to the previous version altered.**