Safety Data Sheet
acc. to OSHA HCS

Printing date 03/29/2019 Version Number 4 Reviewed on 03/29/2019

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1 Identification

· **Product identifier**

· **Trade name: EM 200.7 LPC Standard B (125 mL)**

· **Part number:** ICM-240A
· **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

Carc. 1A H350 May cause cancer.


GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.


GHS07

Skin Irrit. 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**
Causes skin irritation.
Causes serious eye damage.
May cause cancer.

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· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
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.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
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	4.95%
543-81-7	acetic acid beryllium salt	0.282%
10043-35-3	boric acid	0.114%

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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.

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· **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 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
16919-19-0	alkali fluorosilicates (NH4)	12 mg/m³
7722-76-1	ammonium dihydrogenorthophosphate	17 mg/m³
7784-27-2	aluminium nitrate	83 mg/m³
7757-79-1	potassium nitrate	9 mg/m³
13446-18-9	magnesium nitrate hexahydrate	16 mg/m³
7782-61-8	iron (III) nitrate nonahydrate	22 mg/m³
10043-35-3	boric acid	6 mg/m³
554-13-2	lithium carbonate	3.1 mg/m³
7664-39-3	hydrogen fluoride	1.0 ppm
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
7631-99-4	sodium nitrate	4.1 mg/m³
10377-66-9	manganese dinitrate	9.8 mg/m³
3251-23-8	copper dinitrate	8.9 mg/m³

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10022-68-1	Nitric acid, cadmium salt, tetrahydrate	0.27 mg/m³
471-34-1	calcium carbonate	45 mg/m³
10042-76-9	strontium nitrate	5.7 mg/m³
7803-55-6	ammonium trioxovanadate	0.01 mg/m³
10022-31-8	barium nitrate	2.9 mg/m³
7783-34-8	mercuric nitrate monohydrate	0.13 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
7761-88-8	silver nitrate	0.047 mg/m³

· **PAC-2:**

7697-37-2	nitric acid	24 ppm
16919-19-0	alkali fluorosilicates (NH4)	130 mg/m³
7722-76-1	ammonium dihydrogenorthophosphate	190 mg/m³
7784-27-2	aluminium nitrate	920 mg/m³
7757-79-1	potassium nitrate	100 mg/m³
13446-18-9	magnesium nitrate hexahydrate	180 mg/m³
7782-61-8	iron (III) nitrate nonahydrate	110 mg/m³
10043-35-3	boric acid	23 mg/m³
554-13-2	lithium carbonate	34 mg/m³
7664-39-3	hydrogen fluoride	24 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
7631-99-4	sodium nitrate	45 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	2.1 mg/m³
471-34-1	calcium carbonate	210 mg/m³
10042-76-9	strontium nitrate	62 mg/m³
7803-55-6	ammonium trioxovanadate	0.11 mg/m³
10022-31-8	barium nitrate	350 mg/m³
7783-34-8	mercuric nitrate monohydrate	0.17 mg/m³
10099-74-8	lead dinitrate	180 mg/m³
1313-27-5	molybdenum trioxide	43 mg/m³
7446-08-4	selenium dioxide	1.6 mg/m³
1327-53-3	diarsenic trioxide	3.0 mg/m³
10102-45-1	thallium nitrate	4.3 mg/m³

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7440-36-0	antimony	13 mg/m³
7761-88-8	silver nitrate	0.9 mg/m³

· **PAC-3:**

7697-37-2	nitric acid	92 ppm
16919-19-0	alkali fluorosilicates (NH4)	780 mg/m³
7722-76-1	ammonium dihydrogenorthophosphate	1,100 mg/m³
7784-27-2	aluminium nitrate	5,500 mg/m³
7757-79-1	potassium nitrate	600 mg/m³
13446-18-9	magnesium nitrate hexahydrate	1,100 mg/m³
7782-61-8	iron (III) nitrate nonahydrate	640 mg/m³
10043-35-3	boric acid	830 mg/m³
554-13-2	lithium carbonate	210 mg/m³
7664-39-3	hydrogen fluoride	44 ppm
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	320 mg/m³
10026-22-9	cobalt (II) nitrate hexahydrate	140 mg/m³
10196-18-6	zinc(II) nitrate hexahydrate	1,800 mg/m³
7631-99-4	sodium nitrate	270 mg/m³
10377-66-9	manganese dinitrate	96 mg/m³
3251-23-8	copper dinitrate	190 mg/m³
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	13 mg/m³
471-34-1	calcium carbonate	1,300 mg/m³
10042-76-9	strontium nitrate	370 mg/m³
7803-55-6	ammonium trioxovanadate	80 mg/m³
10022-31-8	barium nitrate	2,100 mg/m³
7783-34-8	mercuric nitrate monohydrate	48 mg/m³
10099-74-8	lead dinitrate	1,100 mg/m³
1313-27-5	molybdenum trioxide	260 mg/m³
7446-08-4	selenium dioxide	9.5 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
7761-88-8	silver nitrate	5.4 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.

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· **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 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
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
10043-35-3 boric acid	
TLV	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction

· **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

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· **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
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.
· **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/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.

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· **Solvent content:**	
Water:	91.4 %
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	3.6 %
· **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	10,938 mg/kg (rat)
Dermal	LD50	4,522 mg/kg
Inhalative	LC50/4 h	83.3 mg/L

7697-37-2 nitric acid		
Inhalative	LC50/4 h	67 mg/L (rat)
16919-19-0 alkali fluorosilicates (NH4)		
Oral	LD50	70 mg/kg (rat)
10043-35-3 boric acid		
Oral	LD50	2,660 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	0.16 mg/L (rat)
7664-39-3 hydrogen fluoride		
Oral	LD50	1,276 mg/kg (rat)
10022-68-1 Nitric acid, cadmium salt, tetrahydrate		
Oral	LD50	300 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.

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· **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
7783-34-8	mercuric nitrate monohydrate	3
10099-74-8	lead dinitrate	2A
7446-08-4	selenium dioxide	3
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)**
None of the ingredients is listed.

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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.

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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.

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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, IMDG, IATA**	

· **Class**	8 Corrosive substances
· **Label**	8
· **Packing group**	
· **DOT, IMDG, IATA**	II
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Corrosive substances
· **Danger code (Kemler):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	Acids
· **Stowage Category**	B
· **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: 1 L On cargo aircraft only: 30 L
· **IMDG**	
· **Limited quantities (LQ)**	1L

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· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, II

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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
7784-27-2	aluminium nitrate
7757-79-1	potassium nitrate
13446-18-9	magnesium nitrate hexahydrate
7789-02-8	chromium (III) nitrate nonahydrate
7782-61-8	iron (III) nitrate nonahydrate
554-13-2	lithium carbonate
7664-39-3	hydrogen fluoride
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
10022-31-8	barium nitrate
7783-34-8	mercuric nitrate monohydrate
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
7761-88-8	silver nitrate

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· **TSCA (Toxic Substances Control Act):**	
7697-37-2	nitric acid
16919-19-0	alkali fluorosilicates (NH4)
7722-76-1	ammonium dihydrogenorthophosphate
7757-79-1	potassium nitrate
10043-35-3	boric acid
554-13-2	lithium carbonate
7664-39-3	hydrogen fluoride
7631-99-4	sodium nitrate
10377-66-9	manganese dinitrate
3251-23-8	copper dinitrate
471-34-1	calcium carbonate
10042-76-9	strontium nitrate
7803-55-6	ammonium trioxovanadate
10022-31-8	barium nitrate
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
7761-88-8	silver nitrate
7732-18-5	water

· **TSCA new (21st Century Act): (Substances not listed)**	
543-81-7	acetic acid beryllium salt

· **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
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
7783-34-8	mercuric nitrate monohydrate
1327-53-3	diarsenic trioxide

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**		
10043-35-3	boric acid	I (oral)
10377-66-9	manganese dinitrate	D
10022-31-8	barium nitrate	D, CBD(inh), NL(oral)
7783-34-8	mercuric nitrate monohydrate	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 established by ACGIH)**		
10043-35-3	boric acid	A4
10022-31-8	barium nitrate	A4
7783-34-8	mercuric nitrate monohydrate	A4
10099-74-8	lead dinitrate	A3
1327-53-3	diarsenic trioxide	A1

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **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:** regulatory@ultrasci.com
· **Date of preparation / last revision** 03/29/2019 / 3
· **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
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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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 Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Carc. 1A: Carcinogenicity – Category 1A

· *** Data compared to the previous version altered.**