03/31/2019	Kit Components	
Product code	Description	
ICM-245-KIT	EM 200.7 LPC Standard A	
Components:		
ICM-245A	EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)	
ICM-245B	EPA Method 200.7 Lab Fortifying Stock Standard no. 2 (125 mL)	



Printing date 03/31/2019 Version Number 3 Reviewed on 03/29/2019

1 Identification

· Product identifier

· Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

· Part number: ICM-245A

· 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

2 Hazard identification

· Classification of the substance or mixture



Skin Irritation - Category 2 H315 Causes skin irritation.

Eye Irritation - Category 2A H319 Causes serious eye irritation.

- · Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)



Printing date 03/31/2019 Reviewed on 03/29/2019 Version Number 3

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

(Contd. of page 1)

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



 $\frac{2}{1}$ Health = 2 Fire = 0

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

1.98% w/w

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 eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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.

5 Firefighting 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.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · 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).

(Contd. on page 3)



Printing date 03/31/2019 Version Number 3 Reviewed on 03/29/2019

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

(Contd. of page 2)

· 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.

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.

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

EL Short-term value: 4 ppm Long-term value: 2 ppm

EV Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 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 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.

(Contd. on page 4)



Printing date 03/31/2019 Version Number 3 Reviewed on 03/29/2019

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

(Contd. of page 3)

· 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

9 Physical and chemical proper	ties
· Information on basic physical and c · General Information	hemical properties
· Appearance:	71.11
Form: Color:	Fluid
· Odor:	Colorless Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	0 °C
Boiling point/Boiling range:	100 °C
· 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:	23 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity: Dynamic at 20 °C:	0.952 mPas



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Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

(Contd. of page 4)

Kinematic:	Not determined.
Killelliauc.	Not determined.
· Solvent content:	
Water:	97.8 %
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.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

ATE (Acute	Toxicity	Estimate)
-------	-------	----------	-----------

Oral	LD50	1,276,000 mg/kg (rat)
Dermal		5,000 mg/kg
Inhalative	LC50/4 h	436 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: Irritating effect.
- · 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 (Inte	· IARC (International Agency for Research on Cancer)				
1327-53-3	diarsenic trioxide	1			
10099-74-8	lead dinitrate	2A			
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	1			
7446-08-4	selenium dioxide	3			
10026-22-9	cobalt (II) nitrate hexahydrate	2B			

(Contd. on page 6)



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Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

10022 (0.1	New York and the second of the	(Contd. of page 5)
	Nitric acid, cadmium salt, tetrahydrate	1
543-81-7	acetic acid beryllium salt	1
	nal Toxicology Program)	
	diarsenic trioxide	K
10099-74-8	lead dinitrate	R
	Nitric acid, nickel(2+) salt, hexahydrate	K
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	K
543-81-7	acetic acid beryllium salt	K

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.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number	
DOT, TDG, IMDG, IATA	UN3264
· UN proper shipping name	
·DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)
·TDG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
	(NITRIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC
,	ACID)



Printing date 03/31/2019 Version Number 3 Reviewed on 03/29/2019

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

(Contd. of page 6)

· Transport hazard class(es) · DOT, TDG, IMDG, IATA



8 Corrosive substances · Class

·Label

· Packing group

· DOT, TDG, IMDG, IATA Ш

Not applicable. · Environmental hazards:

Warning: Corrosive substances · Special precautions for user

· Danger code (Kemler): 80

F-A,S-B · EMS Number: · Segregation groups Acids

· Stowage Category

· 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:

 \cdot DOT

· Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

·TDG

· 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 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. · UN "Model Regulation":

(NITRIC ACID), 8, III

15 Regulatory information

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

Section 355 (extremely hazardous substances):

7697-37-2 nitric acid

7664-39-3 hydrogen fluoride

1327-53-3 diarsenic trioxide

(Contd. on page 8)



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Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

	(Contd. of	i pag
	(Specific toxic chemical listings):	
	nitric acid	
7664-39-3	hydrogen fluoride	
7440-36-0	antimony	
1327-53-3	diarsenic trioxide	
	barium nitrate	
7789-02-8	chromium (III) nitrate nonahydrate	
10031-43-3	cupric nitrate	
7782-61-8	iron (III) nitrate nonahydrate	
10099-74-8	lead dinitrate	
554-13-2	lithium carbonate	
10377-66-9	manganese dinitrate	
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	
7784-27-2	aluminium nitrate	
7446-08-4	selenium dioxide	
10042-76-9	strontium nitrate	
10102-45-1	thallium nitrate	
10196-18-6	zinc(II) nitrate hexahydrate	
1313-27-5	molybdenum trioxide	
10026-22-9	cobalt (II) nitrate hexahydrate	
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	
7803-55-6	ammonium trioxovanadate	
543-81-7	acetic acid beryllium salt	
7761-88-8	silver nitrate	
· TSCA (Tox	ic Substances Control Act):	_
7697-37-2		
87-69-4	(+)-tartaric acid	
	hydrogen fluoride	
	ammonium dihydrogenorthophosphate	
7440-36-0		
	diarsenic trioxide	
	barium nitrate	
10043-35-3		
	lead dinitrate	
	lithium carbonate	
	manganese dinitrate	_
	selenium dioxide	
	alkali fluorosilicates (NH4)	
	strontium nitrate	
	thallium nitrate	
	molybdenum trioxide	



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Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

7803-55-6	ammonium trioxovanadate (Contd. of pa
	silver nitrate
7732-18-5	
	ubstance listings:
	Domestic Substances List (DSL)
	nitric acid
	(+)-tartaric acid
	hydrogen fluoride
	ammonium dihydrogenorthophosphate
7440-36-0	
	diarsenic trioxide
10022-31-8	barium nitrate
10043-35-3	boric acid
10099-74-8	lead dinitrate
554-13-2	lithium carbonate
10377-66-9	manganese dinitrate
7446-08-4	selenium dioxide
16919-19-0	alkali fluorosilicates (NH4)
10042-76-9	strontium nitrate
	molybdenum trioxide
7803-55-6	ammonium trioxovanadate
7761-88-8	silver nitrate
7732-18-5	water
Canadian I	ngredient Disclosure list (limit 0.1%)
None of the	ingredients is listed.
Canadian I	ngredient Disclosure list (limit 1%)
7697-37-2	nitric acid

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.

- · Date of the latest revision of the safety data sheet 03/31/2019 / 2
- · Abbreviations and acronyms:

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)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 10)





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Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 1 (125 mL)

(Contd. of page 9)

vPvB: very Persistent and very Bioaccumulative
·* Data compared to the previous version altered.



Printing date 03/31/2019 Version Number 3 Reviewed on 03/28/2019

1 Identification

· Product identifier

· Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 2 (125 mL)

· Part number: ICM-245B

· 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

2 Hazard identification

· Classification of the substance or mixture



Skin Irritation - Category 2 H315 Causes skin irritation.

Eye Irritation - Category 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)



Printing date 03/31/2019 Reviewed on 03/28/2019 Version Number 3

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 2 (125 mL)

(Contd. of page 1)

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



 $\frac{2}{1}$ Health = 2 Fire = 0

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

1.98% w/w

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 eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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.

5 Firefighting 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.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · 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).

(Contd. on page 3)



Printing date 03/31/2019 Version Number 3 Reviewed on 03/28/2019

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 2 (125 mL)

(Contd. of page 2)

· 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.

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.

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

EL Short-term value: 4 ppm Long-term value: 2 ppm

EV Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 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 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.

(Contd. on page 4)



Printing date 03/31/2019 Reviewed on 03/28/2019 Version Number 3

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 2 (125 mL)

(Contd. of page 3)

· 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

9 Physical and chemical proper	rties
· Information on basic physical and o · General Information	
· Appearance:	
Form:	Fluid
Color:	Colorless
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C
· 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:	Not determined.
Density at 20 °C:	1.00652 g/cm ³
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/wat	er): Not determined.
· Viscosity: Dynamic at 20 °C:	0.952 mPas



Printing date 03/31/2019 Version Number 3 Reviewed on 03/28/2019

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 2 (125 mL)

Kinematic: Not determined.

Solvent content:
Water: 98.0 %

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.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

ATE (Acute Toxicity Estimate)

Inhalative LC50/4 h 3,384 mg/L (rat)

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: Irritating effect.
- · 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)	
7647-01-0 hydrochloric acid	3
7783-34-8 mercuric nitrate monohydrate	3
· NTP (National Toxicology Program)	

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- · Aquatic toxicity: No further relevant information available.

(Contd. on page 6)



Printing date 03/31/2019 Version Number 3 Reviewed on 03/28/2019

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 2 (125 mL)

(Contd. of page 5)

- · 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.

- · 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.

•				4	• •		
		Trans	nen	OWE	Thir	nma	tion
						orma	
				~_ ~		,	01011

· UN-Number · DOT, TDG, IMDG, IATA	UN3264
· UN proper shipping name · DOT · TDG · IMDG, IATA	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

- · Transport hazard class(es)
- · DOT, TDG, IMDG, IATA



· Class · Label	8 Corrosive substances 8
Packing group DOT, TDG, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Corrosive substances 80 F-A,S-B

(Contd. on page 7)



Printing date 03/31/2019 Version Number 3 Reviewed on 03/28/2019

Trade name: EPA Method 200.7 Lab Fortifying Stock Standard no. 2 (125 mL)

(Contd. of page 6) Acids · Segregation groups · Stowage Category · 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: \cdot DOT · Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L ·TDG · 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

(NITRIC ACID), 8, III

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

15 Regulatory information

7647-01-0 hydrochloric acid

7440-57-5 gold, soluble compounds as Au

· UN "Model Regulation":

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

Sara				
· Section 35	5 (extremely hazardous substances):			
7697-37-2	nitric acid			
7647-01-0	hydrochloric acid			
· Section 31	· Section 313 (Specific toxic chemical listings):			
7697-37-2	nitric acid			
7647-01-0	hydrochloric acid			
7783-34-8	mercuric nitrate monohydrate			
`	xic Substances Control Act):			
7697-37-2	nitric acid			
7647-01-0	hydrochloric acid			
7440-57-5	gold, soluble compounds as Au			
7732-18-5	water			
Canadian substance listings:				
· Canadian	Domestic Substances List (DSL)			
7697-37-2	nitric acid			

(Contd. on page 8)



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(Contd. of page 7)

7732-18-5 water

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

7697-37-2 nitric acid

· 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.

- · Date of the latest revision of the safety data sheet 03/31/2019 / 2
- · Abbreviations and acronyms:

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

* * Data compared to the previous version altered.

CA