Page 1/9

Tel: 1800 802 402

Safety Data Sheet according to WHS Regulations

Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Product identifier
- · Product name: Lead AA Standard: 1000 μg/mL Pb in 5% HNO3 [500ml bottle]
- · Part number: 5190-8288
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · 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 Australia Pty Ltd

679 Springvale Road

Mulgrave Victoria 3170,

Australia

- · Further information obtainable from: e-mail: pdl-msds_author@agilent.com
- · Emergency telephone number: CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

· Classification of the substance or mixture



health hazard

Repr. 1A H360D May damage the unborn child.



corrosion

Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms





GHS05

GHS08

· Signal word Danger

(Contd. on page 2)





Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Product name: Lead AA Standard: 1000 µg/mL Pb in 5% HNO3 [500ml bottle]

(Contd. from page 1)

· Hazard-determining components of labelling:

nitric acid

Lead

· Hazard statements

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H360D May damage the unborn child.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Aqueous solution.

· Dangerous components:				
0.10.7077 07	nitric acid	<5%		
RTECS: QU5775000	� Ox. Liq. 3, H272; � Acute Tox. 3, H331; � Met. Corr.1, H290; Skin Corr. 1A, H314			
CAS: 7439-92-1	Lead	<0.25%		
RTECS: OF 7525000	 Carc. 2, H351; Repr. 1A, H360FD-H362; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 			

· Additional information:

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- $\cdot \textit{After inhalation: } \textit{Supply fresh air; consult doctor in case of complaints.}$
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Rinse mouth. Do not induce vomiting.

(Contd. on page 3)





Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Product name: Lead AA Standard: 1000 µg/mL Pb in 5% HNO3 [500ml bottle]

(Contd. from page 2)

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot \textit{Indication of any immediate medical attention and special treatment needed}$

No further relevant information available.

5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- · Protective equipment:

HazChem Code: 2X

Wear self-contained respiratory protective device.

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:

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Absorb liquid components with liquid-binding material.

DO NOT USE SAWDUST.

· 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

Store in cool, dry place in tightly closed receptacles.

Open and handle receptacle with care.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.

Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.

(Contd. on page 4)

Page 4/9

Safety Data Sheet according to WHS Regulations

Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Product name; Lead AA Standard: 1000 µg/mL Pb in 5% HNO3 [500ml bottle]

(Contd. from page 3)

· Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

CAS: 7697-37-2 nitric acid

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

- · Additional information: Lists used were valid at the time of SDS preparation.
- · 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.

- · Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

· Material of gloves

PVC gloves

Neoprene gloves

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles





Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Product name: Lead AA Standard: 1000 μ g/mL Pb in 5% HNO3 [500ml bottle]

(Contd. from page 4)

Physical and Chemical Properties	
Information on basic physical and chemi	ical properties
General Information	
Appearance:	
	Liquid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	<2
Change in condition	
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	100 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not determined.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.03298 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

10 Stability and Reactivity

· Reactivity

Stable under normal conditions.

No further relevant information available.

- · Chemical stability Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided:

Formation of toxic gases is possible during heating or in case of fire.

(Contd. on page 6)



Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Product name: Lead AA Standard: 1000 µg/mL Pb in 5% HNO3 [500ml bottle]

(Contd. from page 5)

Page 6/9

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Heat.

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· Incompatible materials:

Strong oxidizing agents.

Metals.

· Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- · LD/LC50 values relevant for classification:

CAS: 7697-37-2 nitric acid

Inhalative LC50/4 h 2.65 mg/l (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Strong irritant with the danger of severe eye injury.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Repr. 1A

12 Ecological Information

- · Toxicity
- · Aquatic toxicity:

CAS: 7697-37-2 nitric acid

LC50/48 180 mg/l (crustacean)

- · Persistence and degradability No further relevant information available.
- · Behaviour 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 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

AU ·





Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Product name: Lead AA Standard: 1000 µg/mL Pb in 5% HNO3 [500ml bottle]

(Contd. from page 6)

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 packaging:
- **Recommendation:** Dispose of in accordance with national regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

-	11	Transna	ort info	rmation
₽	4	I I WHADO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

· UN-Number

· ADG, IMDG, IATA UN3264

· ADG 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,

N.O.S. (NITRIC ACID)

· IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(NITRIC ACID)

- · Transport hazard class(es)
- · ADG, IMDG, IATA



· Class 8 Corrosive substances.

· Label

· Packing group

· ADG, IMDG, IATA

· Environmental hazards: Not applicable.

· Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code):
 EMS Number:
 Segregation groups
 80
 F-A,S-B
 Acids

Stowage Category
 Stowage Code
 A
 SW2 Clear of living quarters.

· Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

· Transport/Additional information:

 \cdot ADG

Limited quantities (LQ)
 Excepted quantities (EQ)
 Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport categoryTunnel restriction codeE

(Contd. on page 8)





Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Product name: Lead AA Standard: 1000 µg/mL Pb in 5% HNO3 [500ml bottle]

	(Contd. from page 7)
· Remarks:	HazChem Code: 2X
· UN ''Model Regulation'':	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Industrial Chemicals

 All ingredients are listed.

 · Standard for the Uniform Scheduling of Medicines and Poisons

 CAS: 7697-37-2 nitric acid S5, S6

 CAS: 7439-92-1 Lead S4

 · Australia: Priority Existing Chemicals
 - · Hazard pictograms





None of the ingredients is listed.

GHS05

GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

nitric acid

Lead

- · Hazard statements
- H290 May be corrosive to metals.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.

H360D May damage the unborn child.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

- regulations.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 7439-92-1 Lead

(Contd. on page 9)





Printing date 20.04.2021 Version number 1 Revision: 20.04.2021

Product name: Lead AA Standard: 1000 µg/mL Pb in 5% HNO3 [500ml bottle]

(Contd. from page 8)

· 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.

· Relevant phrases

H272 May intensify fire; oxidiser.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Contact:

· 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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

 $Ox.\ Liq.\ 3:\ Oxidizing\ liquids-Category\ 3$

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Carc. 2: Carcinogenicity - Category 2

Repr. 1A: Reproductive toxicity - Category 1A

Repr. 1A: Reproductive toxicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

· Sources

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· Data compared to the previous version altered. All sections have been updated.