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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.09.2018

Version number 1

Revision: 13.09.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Product name: Beryllium 1000 µg/mL in 2% HNO3
- · Part number: LK1-00040201
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Reference material for laboratory use only
- \cdot 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: LabKings B.V. Tappersweg 59, 2031 ET Haarlem, The Netherlands

Tel: +31 84 875 63 44 *Web: www.labkings.com*

- · Further information obtainable from: info@labkings.com
- 1.4 Emergency telephone number: +31 84 875 63 44

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Carc. 1B H350 May cause cancer.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger

- Hazard-determining components of labelling: Beryllium Oxyacetate
- · Hazard statements
- H315 Causes skin irritation.

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H319 Causes se	erious eye irritation.
H350 May caus	e cancer.
· Precautionary	statements
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional info	rmation:
Contains Beryll	ium Oxyacetate. May produce an allergic reaction.
Restricted to pr	ofessional users.
\cdot 2.3 Other hazar	rds
•	and vPvB assessment
• PBT: Not appli	cable.

• **vPvB**: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Aqueous solution.

· Dangerous components:				
	Nitric acid 🚸 Ox. Liq. 2, H272; 🔗 Skin Corr. 1A, H314	< 2.0%		
EINECS: 242-785-4	Beryllium Oxyacetate Acute Tox. 3, H301; Acute Tox. 2, H330; Carc. 1B, H350; STOT RE 1, H372; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 0.1%		
A d did an al information	For the wording of the listed harged physics refer to gestion 16			

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · After inhalation: 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:

• After swallowing: Rinse mouth. Do not induce vomiting.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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



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• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.

 \cdot 5.2 Special hazards arising from the substance or mixture

- Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. • 6.2 Environmental precautions:

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

 6.3 Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.
 Absorb liquid components with liquid-binding material.
 DO NOT USE SAWDUST.
 6 4 Beforements to other spectrums

• 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/extraction at the workplace.
 Store in cool, dry place in tightly closed receptacles.
 • Information about fire - and explosion protection: No special measures required.
- Information about fire and explosion protection. No special measures h
- · 7.2 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.
- $\cdot \textit{Further information about storage conditions: Keep container tightly sealed.}$

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

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7697-37-2 Nitric acid

WGW (Netherland) Short-term value: 1.3 mg/m³, 0.5 ppm

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

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· 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.

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· Eye protection:



Tightly sealed goggles

9.1 Information on basic physical and c	hemical properties	
General Information		
Appearance:	7 · · · 1	
Form: Colour:	Liquid	
Colour: Odour:	Colourless Odourless	
Odour: Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Not determined.	
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:	Not determined.	
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.	



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- · Viscosity:
 - Dynamic at 20 °C: Kinematic:

• 9.2 Other information

0.952 mPas Not determined. No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity Stable under normal conditions.
- · 10.2 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.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Heat.
- 10.5 Incompatible materials: Strong oxidizing agents.
- · 10.6 Hazardous decomposition products:
- Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- \cdot Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Carc. 1B
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- May cause cancer.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- · STOT-single exposure Based on available data, the classification criteria are not met.
- \cdot **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.

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- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

· 12.5 Results of PBT and vPvB assessment

• *PBT:* Not applicable.

- **vPvB:** Not applicable.
- \cdot 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation
- *Must not be disposed of together with household garbage. Do not allow product to reach sewage system. European waste catalogue*
- Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- Uncleaned packaging:
- · Recommendation: Dispose of in accordance with national regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN-Number · ADR, ADN, IMDG, IATA · ADR, ADN, IMDG, IATA	Not applicable Not applicable	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Not applicable	
· 14.4 Packing group · ADR, IMDG, IATA	Not applicable	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
· UN "Model Regulation":	Not applicable	

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SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- Additional classification according to Decree on Hazardous Materials, Annex II: 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.

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

SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. Labkings makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

Relevant phrases H272 May intensify fire; oxidiser. H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H350 May cause cancer.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- 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
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- 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) PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

Ox. Liq. 2: Oxidizing liquids – Category 2 Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 2: Acute toxicity - Category 2 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 1B: Carcinogenicity – Category 1B STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 · 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.