

according to 1907/2006/EC, Article 31

Printing date 10.09.2020

Version number 1

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

· 1.1 Product identifier

· Product name: Custom: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cs, Cu, Fe, Ga, Hg, K, Li, Mg, Mn, Na, Ni, Pb, Rb, Se, Sr, Tl, U, V, Zn @ 10 μg/mL in 2% HNO3

· Part number: LK1-85006940-200

• 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

 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: LabKings B.V. Hoge Naarderweg 42, 1217 AG Hilversum The Netherlands

*Tel: +31 35 240 0142 Web: www.labkings.com* 

· Further information obtainable from: info@labkings.com

• 1.4 Emergency telephone number: +31 35 240 0142

**SECTION 2: Hazards identification** 

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

GHS05 corrosion

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

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 Warning
 Hazard statements
 H290 May be corrosive to metals.
 H315 Causes skin irritation.

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(Contd. from page 1) H319 Causes serious eye irritation. · Precautionary statements P280 Wear protective gloves / 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. *P321* Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P406 Store in a corrosion resistant container / container with a resistant inner liner. · 2.3 Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

#### **SECTION 3: Composition/information on ingredients**

#### · 3.2 Chemical characterisation: Mixtures

· Description:

Aqueous solution. Also contains substances at levels not considered to be hazardous.

· Dangerous components:

 CAS: 7697-37-2
 Nitric acid

 EINECS: 231-714-2
 Ox. Liq. 2, H272; Omega Met. Corr.1, H290; Skin Corr. 1A, H314

 RTECS: QU5775000
 Ox. Liq. 2, H272; Omega Met. Corr.1, H290; Skin Corr. 1A, H314

• 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

- $\cdot$  **General information:** Immediately remove any clothing soiled by the product.
- 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:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Rinse mouth. Do not induce vomiting.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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<2%



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**SECTION 5: Firefighting measures** 

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.
- 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 equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Dilute with plenty of water.
- 6.3 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.

• 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 Store in cool, dry place in tightly closed receptacles. • Information about fire - and explosion protection: No special measures required.
- · 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.
- Further information about storage conditions: Keep container tightly sealed.
- 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.

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CAS: 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 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.	
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Respiratory protection:	
Not required.	
Use suitable respiratory protective device in case of insufficient ventilation.	
Protection of hands:	
The glove material has to be impermeable and resistant to the product/ the substance/ the p	preparation.
Selection of the glove material on consideration of the penetration times, rates of	
degradation	55
The protective gloves to be used must comply with the specifications of EC Directive 89	9/686/EEC and t
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 gi	loves and has to
observed.	loves and has lo
Eye protection:	
Tightly sealed goggles	

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9.1 Information on basic physical and c	hemical properties
• General Information	
Appearance:	
Form:	Liquid
Colour:	Colourless
· Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Not determined.
	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.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
9.2 Other information	No further relevant information available.

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SECTION 10: Stability and reactivity

· 10.1 Reactivity

Stable under normal conditions.

- No further relevant information available.
- · 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.

Metals.

#### · 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)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- 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.
- · 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.
- · 12.4 Mobility in soil No further relevant information available.

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· Additional ecological information:

- General notes: Not hazardous for water. Must not reach sewage water or drainage ditch undiluted or unneutralised.
   12.5 Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- *vPvB*: Not applicable.
- 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.

# **SECTION 14: Transport information**

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN3264
$\cdot ADR$	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,
	N.O.S. (NITRIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
	(NITRIC ACID)
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· ADR, IMDĞ, IATA	III
· 14.5 Environmental hazards:	Not applicable.
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· 14.6 Special precautions for user	Warning: Corrosive substances.
· Danger code (Kemler):	80
· EMS Number:	F-A,S-B
· Segregation groups	Acids
· 14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
• Tunnel restriction code	Ε
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC
	N.O.S. (NITRIC ACID), 8, III

# 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

• 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.H290 May be corrosive to metals.H314 Causes severe skin burns and eye damage.

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(Contd. from page 8) · 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 vPvB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids – Category 2 Met. Corr.1: Corrosive to metals - Category 1 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 · 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.

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