

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.12.2017

Version number 1

Revision: 05.12.2017

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

· 1.1 Product identifier

The Netherlands

- · Product name: Custom Standard: Cl @ 20000; Na @ 10000 µg/mL in 5% HNO3
- · Part number: LK1-CB111001D-250
- 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. Tappersweg 59, 2031 ET Haarlem,

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

GHS03 flame over circle

Ox. Liq. 3 H272 May intensify fire; oxidiser.

GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· 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: Nitric acid
- Hazard statements H272 May intensify fire; oxidiser.

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H314 Causes seve	re skin burns and eye damage.
· Precautionary sta	tements
P221	Take any precaution to avoid mixing with combustibles.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P33	8 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.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· 2.3 Other hazards	•
· Results of PRT av	d vPvR assessment

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.

• Dangerous compone	nts:		
CAS: 7697-37-2 EINECS: 231-714-2 RTECS: QU5775000	Nitric acid	🕸 Ox. Liq. 2, H272; 🔗 Skin Corr. 1A, H314	<10%
CAS: 12125-02-9 EINECS: 235-186-4 RTECS: BP 4550000	Ammonium chloride	() Acute Tox. 4, H302; Eye Irrit. 2, H319	<2.5%
CAS: 497-19-8 EINECS: 207-838-8 RTECS: VZ4050000	Sodium carbonate	€ Eye Irrit. 2, H319	<1%
· Additional information	on: For the wording of the la	sted hazard phrases refer to section 16.	·

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · 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.
- Seek immediate medical advice.
- After eye contact: Rinse opened eye for several minutes under running water. Then 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.

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• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available. (Contd. from page 2)

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.
- \cdot 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. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Use neutralising agent. 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 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

See Section 13 for disposal information.

• 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.

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.

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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. Avoid contact with the eyes. 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.

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NO3

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Product name: Custom Standard: Cl @ 20000; Na @ 10000 µg/mL in 5% HNO3

· Eye protection:



Tightly sealed goggles

9.1 Information on basic physical and o	chemical 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.	
Initial boiling point and boiling range	2: 83 °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:	1.05611 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.	

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Product name: Custom Standard: Cl @ 20000; Na @ 10000 µg/mL in 5% HNO3

· Viscosity:

Dynamic: Kinematic:

• 9.2 Other information

Not determined. 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.

· LD/LC50 values relevant for classification:

7697-37-2 Nitric acid

Inhalative LC50/4 h 130 mg/l (rat)

· Primary irritant effect:

· Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

· 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.

 $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$

• STOT-single exposure Based on available data, the classification criteria are not met.

· 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.

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SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

7697-37-2 Nitric acid

LC50/48 180 mg/l (crustacean)

· 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.
- · 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.

- · 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.

- · 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 · ADR · IMDG, IATA

UN2031 2031 NITRIC ACID mixture NITRIC ACID mixture

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[·] Uncleaned packaging:



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14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
<u>T</u>		
V		
Class	8 Corrosive substances.	
Label	8	
14.4 Packing group		
ADR, IMDG, IATA	II	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Warning: Corrosive substances.	
Danger code (Kemler):	80	
EMS Number:	F- A , S - B	
Segregation groups	Acids	
Stowage Category	D	
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)	1L	
Excepted quantities (\widetilde{EQ})	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	
Transport category	2	
Tunnel restriction code	E	
UN "Model Regulation":	UN 2031 NITRIC ACID MIXTURE, 8, II	

SECTION 15: Regulatory information

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

· Philippines Inventory of Chemicals and Chemical Substances

All ingredients are listed.

· Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

7697-37-2 Nitric acid

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Product name: Custom Standard: Cl @ 20000; Na @ 10000 µg/mL in 5% HNO3

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P8 OXIDISING LIQUIDS AND SOLIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 65

· 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. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation.

· 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 2: Oxidizing liquids – Category 2 Ox. Liq. 3: Oxidizing liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 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.