

Page 1/8

# Safety data sheet

# according to 1907/2006/EC, Article 31

Printing date 21.03.2023

Version number 1

Revision: 21.03.2023

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

- · 1.1 Product identifier
- Trade name: Copper Cu 10000 mg/l in 5% HNO3 for ICP (LK1-00290105)
- · Registration number

A registration number is not available for this substance as the substance or its uses are exempted for registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

- 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 Laboratory Reagent Laboratory Reagent
- $\cdot$  1.3 Details of the supplier of the safety data sheet

 Manufacturer/Supplier: CPAchem Ltd.
Ivanka Terzieva Str.
Bogomilovo 6065
Stara Zagora, BULGARIA
info@cpachem.com

LabKings Utrechtseweg 5, 1213 TK Hilversum The Netherlands info@labkings.com

• Further information obtainable from: Product safety department

- · 1.4 Emergency telephone number:
- EMERGENCY HEALTH INFORMATION:

Austria +43 1 31304 5620, Belgium +32022649636, Bulgaria +359 2 9154 409, Croatia +38514686910, Cyprus +3572240561, Czech Republic +420267082257, Denmark +45 72 54 40 00, Estonia +3726943384, Finland +358 5052 000, France +33 3 85 21 92, Germany +49-30-18412-0, Greece +302106479250, Hungary +34 (1) 476 1136, Ireland +35318092566, Italy +390649906140, Latvia +371 67032600, Lithuania +370 70662008, Luxembourg +352 24785551, Netherland +31 88 75 585 61,

Norway +47 21 07 70 00, Poland +48 42 2530 400, Portugal +351213303271, Romania +40213183606, Slovakia +421 2 5465 2307, Slovenia +38614006039, Spain +34 917689800, Sweden +46104566750, United Kingdom (England or Wales) 0845 46 47 or Scotland 08454 24 24 24 (UK only).

- SECTION 2: Hazards identification
- $\cdot$  2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



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

(Contd. on page 2)

Printing date 21.03.2023

Version number 1

Revision: 21.03.2023

### Trade name: Copper Cu - 10000 mg/l in 5% HNO3 for ICP (LK1-00290105)

	(Contd. of page 1)
Hazard-dete	rmining components of labelling:
nitric acid	
Hazard state	ements
H314 Cause	s severe skin burns and eye damage.
Precautiona	ary statements
	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
2.3 Other ho	0

• Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB**: Not applicable.

**VPVB:** Not applicable.

## SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture: consisting of the following components.

#### · Dangerous components:

• Dangerous components:		
CAS: 7697-37-2	nitric acid	5.0%
EINECS: 231-714-2	🚸 Ox. Liq. 3, H272; 🛞 Acute Tox. 3, H331; 谷 Skin Corr. 1A,	
Index number: 007-030-00-3	H314; Eye Dam. 1, H318, EUH071	
	ATE: LC50/4 h inhalative: > 20 mg/l	
	Specific concentration limits: Ox. Liq. 3; H272: $C \ge 65 \%$	
	<i>Skin Corr.</i> 1 <i>A</i> ; <i>H</i> 314: <i>C</i> ≥ 20 %	
	<i>Skin Corr.</i> 1B; H314: 5 % ≤ C < 20 %	
CAS: 3251-23-8	copper dinitrate	2.951%
EINECS: 221-838-5	♦ Acute Tox. 4, H302	1

• 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: Generally the product does not irritate the skin.

• After eye contact: Rinse opened eye for several minutes under running water.

• After swallowing: If symptoms persist consult doctor.

- 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.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

• 5.2 Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

EU

Printing date 21.03.2023

Version number 1

Revision: 21.03.2023

(Contd. of page 2)

#### *Trade name: Copper Cu - 10000 mg/l in 5% HNO3 for ICP (LK1-00290105)*

• 5.3 Advice for firefighters

· Protective equipment: No special measures required.

### **SECTION 6:** Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, 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 No special precautions are necessary if used correctly.

- 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

7697-37-2 nitric acid

IOELV Short-term value: 2.6 mg/m<sup>3</sup>, 1 ppm

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- · Hand protection

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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.

(Contd. on page 4)

EU

Printing date 21.03.2023

Version number 1

Revision: 21.03.2023

(Contd. of page 3)

## Trade name: Copper Cu - 10000 mg/l in 5% HNO3 for ICP (LK1-00290105)

· Eye/face protection Goggles recommended during refilling

<b>SECTION</b>	9: Physico	al and chem	ical propertie	S

9.1 Information on basic physical and chemical p	roperties
General Information	
Physical state	Fluid
Colour: Odour:	According to product specification
	Characteristic Not determined.
Odour threshold:	
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	82.00
range	83 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	0 °C
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and	
environment, and on safety.	••
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	Trouier ubes noi present un exprosion nazara.
Solids content:	3.0 %
Change in condition	5.0 /0
Evaporation rate	Not determined.
•	
Information with regard to physical hazard classe	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
	Void
Pyrophoric solids	
<i>Pyrophoric solids</i> Self-heating substances and mixtures	Void

Printing date 21.03.2023

Version number 1

Revision: 21.03.2023

Trade name: Copper Cu - 10000 mg/l in 5% HNO3 for ICP (LK1-00290105)

	(Contd. of page 4)
lammable	
Void	
	Void Void Void Void

### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 16,943 mg/kg

7697-37-2 nitric acid

Inhalative LC50/4 h > 20 mg/l (ATE)

- · 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.
- · 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.
- · 11.2 Information on other hazards

#### · Endocrine disrupting properties

None of the ingredients is listed.

# 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.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

(Contd. on page 6)

Printing date 21.03.2023

Version number 1

Revision: 21.03.2023

#### Trade name: Copper Cu - 10000 mg/l in 5% HNO3 for ICP (LK1-00290105)

(Contd. of page 5)

- · 12.7 Other adverse effects
- $\cdot$  Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

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

• Uncleaned packaging:

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

14.1 UN number or ID number	11/20/1
ADR, IMDG, IATA	UN3264
14.2 UN proper shipping name	
ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC
	N.O.S. (NITRIC ACID)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
	(NITRIC ACID)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
$\sim$	
6	
$\mathbf{\nabla}$	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F- $A$ , $S$ - $B$
Segregation groups	(SGG1) Acids
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IM	10
instruments	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

Printing date 21.03.2023

Version number 1

Revision: 21.03.2023

### Trade name: Copper Cu - 10000 mg/l in 5% HNO3 for ICP (LK1-00290105)

	(Contd. of page 6
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities ( $\widetilde{E}Q$ )	Code: E2
· · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC
0	N.O.S. (NITRIC ACID), 8, II

# SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · 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
- H314 Causes severe skin burns and eye damage.
- · Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

- 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.

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

## · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

 $\cdot$  Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

(Contd. on page 8)

EU

Printing date 21.03.2023

Version number 1

Revision: 21.03.2023

### Trade name: Copper Cu - 10000 mg/l in 5% HNO3 for ICP (LK1-00290105)

(Contd. of page 7)

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• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H272 May intensify fire; oxidiser.

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.

EUH071 Corrosive to the respiratory tract.

- · Department issuing SDS: Product safety department
- · Contact: Mrs. Taralova
- Date of previous version: 18.01.2023

· 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 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. 3: Oxidizing liquids - Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 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