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Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 04.04.2023

Version number 1

Revision: 04.04.2023

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

- · 1.1 Product identifier
- Trade name: Terbium Tb 1.000 g/l in diluted HNO3 for ICP (LK1-00650205)
- · 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
- · 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

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

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
H315 Causes skin irritation.

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H319 Causes se	rious eye irritation.
· Precautionary s	statements
P264	Wash thoroughly after handling.
P280	Wear 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.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
· 2.3 Other hazar	ds
· Results of PBT	and vPvB assessment
· PBT: Not appli	cable.
<b>D D </b>	

· **vPvB**: Not applicable.

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

· 3.2 Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:				
CAS: 7697-37-2	nitric acid	2.0%		
EINECS: 231-714-2	🛞 Ox. Liq. 3, H272; 🛞 Acute Tox. 3, H331; 🔗 Skin Corr. 1A, H314;			
Index number: 007-030-00-3	Eye Dam. 1, H318, EUH071			
	ATE: LC50/4 h inhalative: > 20 mg/l			
	Specific concentration limits: Ox. Liq. 3; H272: C ≥65 %			
	Skin Corr. 1A; H314: C ≥ 20 %			
	Skin Corr. 1B; H314: 5 % ≤ C < 20 %			

· 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.
- · 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).

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#### · 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.

· Eye/face protection Goggles recommended during refilling

## **SECTION 9: Physical and chemical properties**

emical properties
Fluid
According to product specification
Characteristic
Not determined.

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Molting point/functing point:	(Contd. of page
Melting point/freezing point: Boiling point or initial boiling point and boiling	0 °C
	Undetermined
range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
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 at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	$1 g/cm^3$
Relative density	Not determined.
Vapour density	Not determined.
0.2 Other information	
9.2 Other information	
Appearance:	Fluid
Form:	
Important information on protection of health and	d
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Water:	97.7 %
Solids content:	0.0 %
Molecular weight	18.02 g/mol
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classe	s
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
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	¥7 · 1
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

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## 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.
- $\cdot$  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.
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- 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.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### **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.

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## Trade name: Terbium Tb - 1.000 g/l in diluted HNO3 for ICP (LK1-00650205)

· Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.* 

SECTION 14: Transport information	
14.1 UN number or ID number	
ADR, IMDG, IATA	UN1760
14.2 UN proper shipping name	
ADR	1760 CORROSIVE LIQUID, N.O.S. (NITRIC ACID)
IMDG, IATA	CORROSIVE LIQUID, 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, ĬATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	<i>F-A,S-B</i>
Segregation groups	(SGG1) Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IM instruments	<i>O</i> Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
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
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
2	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (NITRIC ACID
or mouth for animon .	8, III

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	alth and environmental regulations/legislation specific for the substance or mixture
	rding to Regulation (EC) No 1272/2008
	classified and labelled according to the CLP regulation.
· Hazard pictogr	ams
$\wedge$	
$\sim$	
GHS07	
· Signal word Wa	urning
· Hazard stateme	
H315 Causes sk	
H319 Causes se	rious eye irritation.
· Precautionary	
P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
	nresent (nn) ensy (n nn) ( nn) (nn) (ns) (ns) (ns) (ns) (
D227 + D212	
P332+P313 P362+P364	If skin irritation occurs: Get medical advice/attention.
P362+P364 P337+P313 • Directive 2012/ • Named dangere	If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. 18/EU ous substances - ANNEX I None of the ingredients is listed.
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P362+P364 P337+P313 • Directive 2012/ • Named danger • REGULATION • DIRECTIVE 2 electronic equip	If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b> <b>18/EU</b>
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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.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.

EUH071 Corrosive to the respiratory tract.

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Version number 1

Revision: 04.04.2023

## Trade name: Terbium Tb - 1.000 g/l in diluted HNO3 for ICP (LK1-00650205)

	(Contd. of page 7)
)epartı	ment issuing SDS: Product safety department
Contact	t: Mrs. Taralova
Date of	f previous version: 23.09.2022
•	iations and acronyms:
	glement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
	onal Transport of Dangerous Goods by Rail)
	ternational Civil Aviation Organisation
	cord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
	onal Carriage of Dangerous Goods by Road)
MDG: In	nternational Maritime Code for Dangerous Goods
ATA: Int	ternational Air Transport Association
GHS: Glo	obally Harmonised System of Classification and Labelling of Chemicals
INECS:	European Inventory of Existing Commercial Chemical Substances
LINCS:	European List of Notified Chemical Substances
	emical Abstracts Service (division of the American Chemical Society)
	rsistent, Bioaccumulative and Toxic
	ry Persistent and very Bioaccumulative
	3: Oxidizing liquids – Category 3
	x. 3: Acute toxicity – Category 3
	r. 1A: Skin corrosion/irritation – Category 1A
	. 2: Skin corrosion/irritation – Category 2
-	. 1: Serious eye damage/eye irritation – Category 1
'ye Irrit.	2: Serious eye damage/eye irritation – Category 2
	E