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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.02.2023

Version number 1

Revision: 17.02.2023

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

- · 1.1 Product identifier
- · Trade name: Thallium Tl -1.000 g/l in HNO3 for ICP (LK1-00810205)
- · 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**
- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



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

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· Hazard stateme	ents
H315 Causes sk	kin irritation.
H319 Causes se	erious 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	rds
Results of PBT	and vPvB assessment
PBT: Not appli	

• **PBI**: Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• Description: Mixture: consisting of the following components.

	Dangerous	components:
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	• Dangerous components:		
ľ	CAS: 7697-37-2	nitric acid	2.0%
	EINECS: 231-714-2	🕲 Ox. Liq. 3, H272; 🛞 Acute Tox. 3, H331; 砱 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: $C \ge 65\%$	
		<i>Skin Corr.</i> 1 <i>A</i> ; <i>H</i> 314: <i>C</i> ≥ 20 %	
		<i>Skin Corr.</i> 1 <i>B</i> ; <i>H</i> 314: 5 % ≤ <i>C</i> < 20 %	
ľ	CAS: 10102-45-1	thallium nitrate	0.13%
	EINECS: 233-273-1	left Acute Tox. 2, H300; Acute Tox. 2, H330; 🚸 STOT RE 2, H373;	
	Index number: 081-002-00-9		

· 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

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- 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: Call for a doctor immediately.
- 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.

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· 5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

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). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

• **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/exhaustion at the workplace. Prevent formation of aerosols.

- · 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: Keep container tightly sealed.
- · 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/m³, 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:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

• 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.

· 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 (Contd. on page 4)

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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

General Information	
Physical state	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
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	ror acronninea.
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
	Noi delermined.
Density and/or relative density	Not determined
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health an environment, and on safety.	d
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	· · · · · · · · · · · · · · · · · · ·
Solids content:	0.1 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classe	25
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void Void
L'lammable colide	Void
Flammable solids	\mathbf{V}_{-} : \mathbf{J}_{-}
Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Void Void

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· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamm	ıable	
gases in contact with water	Void	
• Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	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 11,538 mg/kg (mouse)

Inhalative LC50/4 h 38.5 mg/l

· 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.
- $\cdot \textit{Germ cell mutagenicity} \textit{ Based on available data, the classification criteria are not met.}$
- \cdot Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- $\cdot \textbf{STOT-repeated exposure } Based on available data, the classification criteria are not met.$
- · 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.

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- · 12.7 Other adverse effects
- \cdot 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.

- Uncleaned packaging:
- *Recommendation: Disposal must be made according to official regulations.*

ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG, IATA 14.3 Transport hazard class(es) ADR, IMDG, IATA	1760 CORROSIVE LIQUID, N.O.S. (NITRIC ACID) CORROSIVE LIQUID, N.O.S. (NITRIC ACID)
ADR IMDG, IATA 14.3 Transport hazard class(es)	
14.3 Transport hazard class(es)	CORROSIVE LIQUID, N.O.S. (NITRIC ACID)
ADR, IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	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:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IMO	
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (\widetilde{EQ})	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3

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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 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), 8, III

SECTION 15: Regulatory information

	rding to Regulation (EC) No 1272/2008 classified and labelled according to the CLP regulation.
Hazard pictogr	
$\mathbf{\wedge}$	
\mathbf{i}	
GHS07	
011507	
Signal word Wa	urning
Hazard stateme	
H315 Causes sk	
	prious eye irritation.
Precautionary s	
P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P303+P331+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, 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.
Directive 2012/ Named danger	18/EU D us substances - ANNEX I None of the ingredients is listed.
REGULATION	(EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
	011/65/EU on the restriction of the use of certain hazardous substances in electrical ar oment – Annex II
None of the ing	redients is listed.
REGULATION	(EU) 2019/1148
Annex I - RES under Article 5	TRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensir (3))
None of the ing	redients is listed.
Annex II - REF	PORTABLE EXPLOSIVES PRECURSORS
None of the ing	redients is listed.
<i>j</i>	T) No 273/2004 on drug precursors
• •	
Regulation (EC	redients is listed.
Regulation (EC None of the ing Regulation (EC	redients is listed. C) No 111/2005 laying down rules for the monitoring of trade between the Community an in drug precursors

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This info	ON 16: Other information prmation is based on our present knowledge. However, this shall not constitute a guarantee for product features and shall not establish a legally valid contractual relationship.
Relevant	
H272	May intensify fire; oxidiser.
H300	Fatal if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
	Corrosive to the respiratory tract.
LUHU/I	
Departm	nent issuing SDS: Product safety department
Contact:	Mrs. Taralova
Date of 1	previous version: 01.09.2022
• •	ations and acronyms:
	ement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concernin
	nal Transport of Dangerous Goods by Rail)
	ernational Civil Aviation Organisation
	ord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning
	nal Carriage of Dangerous Goods by Road)
	ernational Maritime Code for Dangerous Goods
	rnational Air Transport Association
	bally Harmonised System of Classification and Labelling of Chemicals European Inventory of Existing Commercial Chemical Substances
	European List of Notified Chemical Substances
	nical Abstracts Service (division of the American Chemical Society)
	hal concentration, 50 percent
LD50: Leth	hal dose, 50 percent
PBT: Persi	istent, Bioaccumulative and Toxic
	Persistent and very Bioaccumulative
-	Oxidizing liquids – Category 3
	2: Acute toxicity – Category 2
	3: Acute toxicity – Category 3
	1A: Skin corrosion/irritation – Category 1A 2: Skin corrosion/irritation – Category 2
	2: Skin corrosion/irritation – Category 2 1: Serious eye damage/eye irritation – Category 1
	2: Serious eye damage/eye irritation – Category 1 2: Serious eye damage/eye irritation – Category 2
	2: Specific target organ toxicity (repeated exposure) – Category 2
STOT RE 2	