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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2023

Version number 1

Revision: 28.07.2023

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

- · 1.1 Product identifier
- Trade name: Titanium Ti 1000 mg/l Standard for ICP diluted in HNO3/HF (LK1-00220201)
- · 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
- \cdot 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: CPAchem Ltd. 2 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



GHS06 skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.

GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4H302 Harmful if swallowed.Acute Tox. 4H332 Harmful if inhaled.

(Contd. on page 2)

[–] ÉU

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CAS: 7664-39-3

EINECS: 231-634-8

Index number: 009-003-00-1

hydrofluoric acid

Version number 1

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Trade name: Titanium Ti - 1000 mg/l Standard for ICP diluted in HNO3/HF (LK1-00220201)

	1 11 - 1000	mgri Sianaara Jor ICF analea in HNOS/HF (LKI-00220201)
		(Contd. of page 1)
· 2.2 Label element		
		lation (EC) No 1272/2008
	v	labelled according to the CLP regulation.
• Hazard pictogram	S	
GHS05 GHS0	Ś	
· Signal word Dang	er	
· Hazard-determini	ng compon	ents of labelling.
nitric acid	ng compon	enis of motiung.
hydrofluoric acid		
titanium trifluorid	е	
· Hazard statement		
		lowed or if inhaled.
	c in contact	•
		kin burns and eye damage.
· Precautionary sta		
		XIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water [or	
P305+P351+P33	-	ES: Rinse cautiously with water for several minutes. Remove contact lenses, if
		nd easy to do. Continue rinsing.
P310		ely call a POISON CENTER/doctor.
P321	Specific ti	reatment (see on this label).
P361+P364	Take off in	mmediately all contaminated clothing and wash it before reuse.
P405	Store lock	ted up.
P501		of contents/container in accordance with local/regional/national/international
Additional inform	regulation	15.
· Additional inform		d surlasiuss massures Maline quailable introduction responsion and use
		d explosives precursors. Making available, introduction, possession and use) 2019/1148, Article 5 (1) and (3).
· 2.3 Other hazards		2019/1146, Arucle 5 (1) ana (5).
· 2.5 Other nazaras · Results of PBT an		logg mont
• PBT: Not applical		essment
• vPvB: Not applica		
	<i>bic</i> .	
SECTION 3: C	'ompositi	on/information on ingredients
· 3.2 Mixtures		
	ura: consist	ing of the following components.
-		ing of the jouowing components.
· Dangerous compo	nents:	
CAS: 7697-37-2		nitric acid 5.0%
EINECS: 231-714		🚸 Ox. Liq. 3, H272; 🛞 Acute Tox. 3, H331; 谷 Skin Corr. 1A, H314;
Index number: 002		Eye Dam. 1, H318, EUH071
Reg.nr.: 01-21194	87297-23	ATE: LC50/4 h inhalative: > 20 mg/l
		Specific concentration limits: Skin Corr. 1A; H314: $C \ge 20 \%$
		<i>Skin Corr. 1B; H314: 5 % ≤ C < 20 %</i>
1		O L: 2 H272 O N C O

Ox. Liq. 3; H272: C ≥65 %

Skin Corr. 1B; H314: $1 \% \le C < 7 \%$ Eye Irrit. 2; H319: $0.1 \% \le C < 1 \%$

Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; Skin Corr. 1A, H314

Specific concentration limits: Skin Corr. 1A; H314: C ≥ 7 %

0.5%

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CAS: 13470-08-1	titanium trifluoride	0.2%
EINECS: 236-732-4	𝔅 Ox. Sol. 2, H272; <↔ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330	

· 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. If symptoms persist, consult a doctor. • *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.
- · 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:
- 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 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.

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- · 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

7664-39-3 hydrofluoric acid

IOELV Short-term value: 2.5 mg/m³, 3 ppm Long-term value: 1.5 mg/m³, 1.8 ppm

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

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as 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:

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



Protective gloves

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.

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Eye/face protection	(Contd. of pag
Tightly sealed goggles	
SECTION 9: Physical and chemical prop	erties
9.1 Information on basic physical and chemical p	roperties
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	83 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	$0 ^{\circ}C$
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	ivoi uetermineu.
•	Not determined.
Kinematic viscosity	Not determined.
Dynamic:	Noi determinea.
Solubility	
water:	Fully miscible.
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	d
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Solids content:	0.0~%
Change in condition	
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
r iammable ilgulas	

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· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
• Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamm	able	
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.

 \cdot 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

Harmful if swallowed or if inhaled. Toxic in contact with skin.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	980 mg/kg
Dermal	LD50	993 mg/kg
Inhalative	LC50/4 h	20 mg/l

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.
- \cdot 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.

 \cdot 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.

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Trade name: Titanium Ti - 1000 mg/l Standard for ICP diluted in HNO3/HF (LK1-00220201)

- · 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 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.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	tion
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN2922
· 14.2 UN proper shipping name · ADR	2922 CORROSIVE LIQUID, TOXIC, N.O.S. (NITRI ACID, hydrofluoric acid)
· IMDG, IATA	CORROSIVE LIQUID, TOXIC, N.O.S. (NITRIC ACIE hydrofluoric acid)
· 14.3 Transport hazard class(es)	
· ADR	
· Class	8 Corrosive substances.
· Label	8+6.1
·IMDG	
· Class	8 Corrosive substances.
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Label	8/6.1
IATA	
Class	8 Corrosive substances.
Label	8 (6.1)
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):	86
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (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	<i>E</i>
IMDG	
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.
or mouti Reguinion .	(NITRIC ACID, HYDROFLUORIC ACID), 8 (6.1), II

SECTION 15: Regulatory information

 \cdot 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

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hydrofluoric ac	
titanium trifluoi	
Hazard stateme	
	armful if swallowed or if inhaled.
Н311 Та	oxic in contact with skin.
	uses severe skin burns and eye damage.
Precautionary s	
P303+P361+P	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin wit water [or shower].
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P405	Store locked up.
P403 P501	Dispose of contents/container in accordance with local/regional/national/international
1 301	regulations.
Directive 2012/	
-	ous substances - ANNEX I None of the ingredients is listed.
LIST OF SUBS	STANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
	STANCES SUBJECT TO AUTHORISATION (ANNEX XIV) redients is listed.
None of the ing REGULATION	redients is listed. (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
None of the ing REGULATION DIRECTIVE 2 electronic equip	redients is listed. (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 an oment – Annex II
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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. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

H272 May intensify fire; oxidiser.

- H300 Fatal if swallowed.
- H301 Toxic if swallowed.

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H31	9 Fatal in contact with skin.
H31	1 Toxic in contact with skin.
H31	4 Causes severe skin burns and eye damage.
H31	
H33	
H33	5
	1071 Corrosive to the respiratory tract.
	artment issuing SDS: Product safety department
	tact: Mrs. Taralova
	of previous version: 01.03.2023
	reviations and acronyms:
	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
	national Transport of Dangerous Goods by Rail)
	: International Civil Aviation Organisation
	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the mational Carriage of Dangerous Goods by Road)
	G: International Maritime Code for Dangerous Goods
	International Air Transport Association
	Globally Harmonised System of Classification and Labelling of Chemicals
	CS: European Inventory of Existing Commercial Chemical Substances
	CS: European List of Notified Chemical Substances
	Chemical Abstracts Service (division of the American Chemical Society)
LC50	: Lethal concentration, 50 percent
	: Lethal dose, 50 percent
	Persistent, Bioaccumulative and Toxic
	: Substances of Very High Concern
	very Persistent and very Bioaccumulative
	iq. 3: Oxidizing liquids – Category 3
	ol. 2: Oxidizing solids – Category 2
	Tox. 2: Acute toxicity – Category 2
	Tox. 4: Acute toxicity – Category 4
	Tox. 1: Acute toxicity – Category 1 Tox. 3: Acute toxicity – Category 3
	<i>Corr. 1A: Skin corrosion/irritation – Category 1A</i>
	Corr. 1B: Skin corrosion/irritation – Category 1B
	Dam. 1: Serious eye damage/eye irritation – Category 1
Lyci	EU-
	Ec