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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.11.2023

Version number 3 (replaces version 2)

Revision: 02.11.2023

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

- · 1.1 Product identifier
- Trade name: Barium Ba 1 g/l in diluted HNO3 for ICP (C006.2NP)
- · 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. 2 Ivanka Terzieva Str. Bogomilovo 6065 Stara Zagora, BULGARIA info@cpachem.com +359 42952901

· 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* 



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### Trade name: Barium Ba - 1 g/l in diluted HNO3 for ICP (C006.2NP)

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Signal word Wa	
Hazard stateme	<i>ints</i>
H315 Causes sk	cin irritation.
H319 Causes se	rious eye irritation.
Precautionary s	statements
P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
<i>P305+P351+P</i> .	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.
2.3 Other hazar	ds
<b>Results of PBT</b>	and vPvB assessment
<b>PBT:</b> Not applied	
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· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

• Description: Mixture: consisting of the following components.

### · Dangerous components:

Dungerous components.		
CAS: 7697-37-2	nitric acid	2.0%
EINECS: 231-714-2	🕲 Ox. Liq. 3, H272; 🛞 Acute Tox. 3, H331; 谷 Skin Corr. 1A, H314;	
Index number: 007-030-00-3	Eye Dam. 1, H318, EUH071	
Reg.nr.: 01-2119487297-23	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 &lt; 20 %</i>	
	Ox. Liq. 3; H272: C ≥ 65 %	

• 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.

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### Trade name: Barium Ba - 1 g/l in diluted HNO3 for ICP (C006.2NP)

· 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 section 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 c	hemical properties	
• 9.1 Information on basic physical • General Information	and chemical properties	
· Physical state	Fluid	
· Colour:	According to product specification	
· Odour:	Characteristic	
		(Contd. on page 4)

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Melling point/freezing point:       0 °C         Boiling point or initial boiling point and boiling       100 °C (7732-18-5 water, distilled, conductivity or similar purity)         Flammability       Not applicable.         Lower:       Not determined.         Upper:       Not determined.         Partine:       Not determined.         Pherica and the pression limit       Not applicable.         Lower:       Not determined.         Pression:       Not determined.         Pherica and pression the presture:       Not determined.         Pherica and pression:       Not determined.         Pherica and pression:       Not determined.         Viscosity:       Not determined.         Water:       0.952 mPas         Solubility       Not determined.         Vapour pressure at 20 °C:       23 hPa         Density and/or relative density       Not determined.         Vapour density       Not determined.	Odour threshold:	Not determined.
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Organic peroxides Void		
8 1	Oxidising solids	
Corrosive to metals Void	Our muis a sussidior	Void

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Trade name: Barium Ba - 1 g/l in diluted HNO3 for ICP (C006.2NP)

· 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.
- · 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: Barium Ba - 1 g/l in diluted HNO3 for ICP (C006.2NP)

· Uncleaned packaging:

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

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, 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	(SGG1a) Strong acids
Stowage Category	
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)	5L
Excepted quantities $(\tilde{E}Q)$	Code: E1
-	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	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 ACIE

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### Trade name: Barium Ba - 1 g/l in diluted HNO3 for ICP (C006.2NP)

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SECTION 15	5: Regulatory information
	lth and environmental regulations/legislation specific for the substance or mixture
	ding to Regulation (EC) No 1272/2008
	lassified and labelled according to the CLP regulation.
Hazard pictogra	ims
$\wedge$	
$\langle 1 \rangle$	
· · /	
GHS07	
Signal word Wa	urning
• Hazard stateme	
H315 Causes sk	
	rious eye irritation.
Precautionary s	
P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P303+P351+P3	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/	
-	ous substances - ANNEX I None of the ingredients is listed.
	STANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
None of the ingr	
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 ingr	
• •	(EU) 2019/1148
	TRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing the purpose of lic
None of the ingr	
Annex II - REP	ORTABLE EXPLOSIVES PRECURSORS
None of the ingr	
Regulation (EC	) No 273/2004 on drug precursors
None of the ingr	
	T) No 111/2005 laying down rules for the monitoring of trade between the Community ar in drug precursors
None of the ingr	
National regula	tions:
Other regulation	ns, limitations and prohibitive regulations
-	ery high concern (SVHC) according to REACH, Article 57
None of the ingr	
• •	safety assessment: A Chemical Safety Assessment has not been carried out.

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

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SECTI	ON 16: Other information
This info specific p This Safe	rmation is based on our present knowledge. However, this shall not constitute a guarantee for any product features and shall not establish a legally valid contractual relationship. The product features is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by pon (EU) 2020/878.
H314 H318 H331	phrases May intensify fire; oxidiser. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. Corrosive to the respiratory tract.
Denartm	ent issuing SDS: Product safety department
	Mrs. Taralova
Date of p	previous version: 13.10.2022
Date of p Version	previous version: 13.10.2022 number of previous version: 2
Date of p Version	previous version: 13.10.2022
Date of p Version Abbrevia	previous version: 13.10.2022 number of previous version: 2 ntions and acronyms:
Date of p Version Abbrevia RID: Règle	previous version: 13.10.2022 number of previous version: 2 ntions and acronyms:
Date of p Version i Abbrevia RID: Règle Internation	previous version: 13.10.2022 number of previous version: 2 ntions and acronyms: ement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning th
Date of p Version a Abbrevia RID: Règle Internation ICAO: Inte	previous version: 13.10.2022 number of previous version: 2 ntions and acronyms: ement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation
Date of p Version i Abbrevia RID: Règle Internation ICAO: Inte ADR: Acco	previous version: 13.10.2022 number of previous version: 2 ttions and acronyms: ement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the al Transport of Dangerous Goods by Rail) rrational Civil Aviation Organisation ord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning th
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