

ICP concentrate dyprosium 10.000 g Dy/I Dy2O3 in nitric acid 5 % traceable to NIST

Revision date: 28.03.2024

Product code: 26972

Page 1 of 11

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

1.1. Product identifier

ICP concentrate dyprosium 10.000 g Dy/I Dy2O3 in nitric acid 5 % traceable to NIST

UFI:

APPD-P2H9-H000-GSTA

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
	ACD	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Dangero	ous Goods] Incidents Spill, Leak, Fire,
<u>number:</u>	•	REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008 Hazard components for labelling nitric acid Signal word: Danger

Pictograms:



Hazard statements H290

May be corrosive to metals.



ICP concentrate dyprosium 10.000 g Dv/I Dv2O3 in nitric acid 5 % traceable to NIST

according to Regulation (EC) No 1907/2006

evision date: 28.03.2024	Product code: 26972	Page 2 of 11
H314	Causes severe skin burns and eye damage.	
Precautionary statemen	ts	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
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.	

Corrosive to the respiratory tract.

2.3. Other hazards

EUH071

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Relevant ingredients

CAS No	Chemical name	Chemical name				
	EC No	EC No Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)					
7697-37-2	nitric acid	nitric acid				
	231-714-2	231-714-2 007-030-00-3 01-2119487297-23				
Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A; H272 H290 H331 H314 EUH071						

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
Specific Conc. Limits, M-factors and ATE			
7697-37-2	231-714-2	nitric acid	5 - < 10 %
		2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 rr. 1B; H314: >= 5 - < 20	

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!

After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.



ICP concentrate dyprosium 10.000 g Dy/I Dy2O3 in nitric acid 5 % traceable to NIST

according to Regulation (EC) No 1907/2006

Revision date: 28.03.2024

Product code: 26972

Page 3 of 11

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Causes burns. Irritant Cough Dyspnoea Vomiting Methaemoglobinaemia Risk of serious damage to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.



ICP concentrate dyprosium 10.000 g Dy/I Dy2O3 in nitric acid 5 % traceable to NIST

Revision date: 28.03.2024

Product code: 26972

Page 4 of 11

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Corrosive to metals.

Unsuitable container/equipment material: Metal

The product develops hydrogen in an aqueous solution in contact with metals.

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection



ICP concentrate dyprosium 10.000 g Dy/I Dy2O3 in nitric acid 5 % traceable to NIST

Revision date: 28.03.2024

Product code: 26972

Page 5 of 11

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Environmental exposure controls

Do not allow to enter into surface water or drains.



ICP concentrate dyprosium 10.000 g Dy/I Dy2O3 in nitric acid 5 % traceable to NIST

Revision date: 28.03.2024

Product code: 26972

Page 6 of 11

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and ch	<u>nemical properties</u>	
Physical state:	Liquid	
Colour:	colourless	
Odour:	like: Nitric acid	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		acidic
Viscosity / kinematic:		No data available
Water solubility:		No data available
Solubility in other solvents		
No data available		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density:		No data available
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
Particle characteristics:		No data available
9.2. Other information		
Information with regard to physical ha	azard classes	
Explosive properties		
No data available		
Sustaining combustion:		No data available
Self-ignition temperature		
Solid:		No data available
Gas:		No data available
Oxidizing properties		
Oxidizing		
Other safety characteristics		
Evaporation rate:		No data available
Solvent separation test:		No data available
Solvent content:		No data available
Solid content:		No data available
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
No data available:		
Viscosity / dynamic:		No data available
Flow time:		No data available



ICP concentrate dyprosium 10.000 g Dy/l Dy2O3 in nitric acid 5 % traceable to NIST

Revision date: 28.03.2024

Product code: 26972

Page 7 of 11

Further Information

Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals. Oxidising agent

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Alkali (lye)

The product develops hydrogen in an aqueous solution in contact with metals. Amines, Ammonia, Alcohols, Alkali metals, Hydrogen peroxide Copper, Combustible solids, Solvent, Alkaline earth metal, mercury (Hg).

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Cellulose

Metal

The product develops hydrogen in an aqueous solution in contact with metals.

10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CA	AS No	Chemical name					
		Exposure route Dose Species Source Meth		Method			
769	97-37-2	nitric acid					
		inhalation vapour	ATE 2,65 mg/l				

Irritation and corrosivity

Causes severe skin burns and eye damage. Causes serious eye damage. Corrosive to the respiratory tract. Following ingestion Gastric perforation Irritating to respiratory system. Pulmonary oedema see also Section 4



ICP concentrate dyprosium 10.000 g Dy/l Dy2O3 in nitric acid 5 % traceable to NIST

Revision date: 28.03.2024	Product code: 26972	Page 8 of 11
Sensitising effects Based on available data, the cla	ssification criteria are not met.	

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Information on likely routes of exposure

There are no data available on the preparation/mixture itself.

Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

Additional information on tests

There are no data available on the preparation/mixture itself.

Practical experience

There are no data available on the preparation/mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the preparation/mixture itself.

Other information

There are no data available on the preparation/mixture itself.

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7697-37-2	nitric acid						
	Acute fish toxicity	LC50 mg/l	1559	96 h	Topeka shiner	Environmental Toxicology and Chemistry,	other: ASTM E729-26
	Fish toxicity	NOEC	268 mg/l		juvenile Topeka shiner and with juvenile Fathead m	Study report (2009)	Growth tests estimated the test chemical
	Algae toxicity	NOEC mg/l	> 419		several benthic diatoms; see results	Marine Biology 43:307-315 (1977)	Ten cultures of benthic diatoms were iso
	Acute bacteria toxicity	EC50 mg/l()	> 1000	3 h	Activated sludge	Study report (2008)	OECD Guideline 209

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.



ICP concentrate dyprosium 10.000 g Dy/l Dy2O3 in nitric acid 5 % traceable to NIST

Revision date: 28.03.2024

Product code: 26972

Page 9 of 11

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. There are no data available on the mixture itself.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. There are no data available on the mixture itself.

Further information

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 2031
14.2. UN proper shipping name:	NITRIC ACID
<u>14.3. Transport hazard class(es):</u>	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 2031
14.2. UN proper shipping name:	NITRIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 2031
14.2. UN proper shipping name:	NITRIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
	-



ICP concentrate dyprosium 10.000 g Dy/I Dy2O3 in nitric acid 5 % traceable to NIST

Special Provisions: - Limited quantity: 1 Excepted quantity: E2 EmS: F-A, S-B Air transport (ICAO-TI/IATA-DGR) - 14.1. UN number or ID number: UN 2031 14.2. UN proper shipping name: NITRIC ACID 14.3. Transport hazard class(es): 8 14.4. Packing group: II Hazard label: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Excepted quantity: E0 IATA-packing instructions - Passenger: Forbidden IATA-packing instructions - Cargo: 855 IATA-packing instructions - Cargo: 855 IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:	Revision date: 28.03.2024	ium 10.000 g Dy/I Product	code: 26972	Page 10 of 1
Limited quantity: 1 L Excepted quantity: E2 EmS: FA, S-B Air transport (ICAO-TI/IATA-DGR) I.4.1.UN number or ID number: UN 2031 I.4.2.UN proper shipping name: NITRIC ACID I.4.3. Transport hazard class(es): 8 I.4.4. Packing aroue: II Hazard label: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Excepted quantity: E0 IATA-packing instructions - Passenger: Forbidden KATA-max, quantity - Passenger: Forbidden IATA-max, quantity - Passenger: Forbidden IATA-max, quantity - Passenger: Soft IATA-max, quantity - Passenger: Forbidden KATA-max, quantity - Passenger: Soft IATA-max, quantity - Cargo: 30 L I.5. Exercised Soft IATA-max, quantity - Cargo: Soft IATA-max, quantity - Cargo: Soft IATA-max - Cargo: Soft IATA-max quantity - Cargo: Soft IATA-max - Cargo: Soft I				0
Excepted quantity: E2 EmS: FA, S-B Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: UN 2031 14.2. UN proper shipping name: NITRIC ACID 14.3. Transport hazard class(es): 8 14.4. Packing group: II Hazard tabel: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Excepted quantity: E0 KATA-packing instructions - Passenger: Forbidden KATA-packing instructions - Passenger: Forbidden IATA-packing instructions - Passenger: Forbidden KATA-packing instructions - Passenger: Forbidden KATA-packing instructions - Cargo: 855 KATA-max, quantity - Cargo: 30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No SECTION 15: Regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Mational regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the "juvenile work protection guideline" (94/33/EC).	•	-		
EmS:				
Air transport (ICAO-TI/IATA-DGR) I 4.1. UN number or ID number: UN 2031 I 4.2. UN proper shipping name: NITRIC ACID I 4.3. Transport hazard class(es): 8 I 4.4. Packing group: II Hazard label: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Passenger LQ: Forbidden Passenger: Forbidden Passenger: Forbidden IATA-packing instructions - Passenger: Forbidden IATA-packing instructions - Passenger: Forbidden IATA-packing instructions - Cargo: S55 IATA-max. quantity - Passenger: Forbidden IATA-packing instructions - Cargo: 30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No SECETION 15: Regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Mational regulatory information Kational regulatory information Kational regulatory information Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Mational regulatory information KIDA Packing information Contact point. Mational regulatory information KIDA Packing information Contact point. Mational regulatory information KIDA Packing information Contact point. KIDA Packing informati				
14.1. UN number or ID number: UN 2031 14.2. UN proper shipping name: NITRIC ACID 14.3. Transport hazard class(es): 8 14.4. Packing group: II Hazard label: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Passenger LQ: Forbidden IATA-packing instructions - Passenger: Forbidden IATA-packing instructions - Cargo: 855 IATA-packing instructions - Cargo: 80 IATA-packing instructions - Cargo: 80 IATA-packing instructions - Cargo: 855 IATA-packing instructions - Cargo: 80 IATA-packing instructions - Vaspenger: No IATA-packing instructions - Vaspenger: No IATA-packing instructions - Cargo: 80 IATA-packing instructions - Vaspenger: No IATA-packing instructions - Vaspenger: No IATA-packing instructions - Vaspenger: No		г-А, З-Б		
14.2. UN proper shipping name: NITRIC ACID 14.3. Transport hazard class(es): 8 14.4. Packing group: I Hazard label: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Excepted quantity: E0 IATA-max. quantity - Passenger: Forbidden IATA-max. quantity - Passenger: Forbidden IATA-max. quantity - Cargo: 855 IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards EV ENVIRONMENTALLY HAZARDOUS: No SECTION 15: Regulatory information No 15.1. Safety. health and environmental regulations/legislation specific for the substance or mixture Eu regulatory information Environ use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.	• • •	1111 0004		
14.3. Transport hazard class(e): 8 14.4. Packing group: II Hazard label: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Excepted quantity: E0 IATA-packing instructions - Passenger: Forbidden IATA-packing instructions - Cargo: Sobe IATA-max. quantity - Passenger: Forbidden IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 16.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 17. Safety, health and environmental regulation (EU) 2019/1148/EU (SEVESO III) 2012/18/EU (SEVESO III): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or us				
14.4. Packing group: II Hazard label: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LO: Forbidden Passenger LO: Forbidden Passenger LO: Forbidden IATA-packing instructions - Passenger: Forbidden IATA-max. quantity - Passenger: Forbidden IATA-max. quantity - Cargo: 855 IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: ENVIRONMENTALLY HAZARDOUS: No 15.1. Safety. health and environmental regulations/legislation specific for the substance or mixture 15.1. Safety. health and environmental regulations/legislation specific for the substance or mixture 16.1. Safety. health and environmental regulations/legislation specific for the substance or mixture 16.1. Safety. health and environmental regulations/legislation specific for the substance or mixture 17. Safety. Health and environmental regulations/legislation specific for the substance or mixture 18.1. Safety. health and environmental regulations/legislation specific for the substance or mixture 19.1. Entry 3 Information 10.2012/18/EU (SEVESO III): Marketing and use of explosives prec				
Hazard label: 8 Special Provisions: A212 Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Excepted quantity: E0 IATA-packing instructions - Passenger: Forbidden IATA-packing instructions - Cargo: 855 IATA-max. quantity - Passenger: Forbidden IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: RN/RONMENTALLY HAZARDOUS: No 15.1. Safety. health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).		-		
Special Provisions:A212Limited quantity Passenger:ForbiddenPassenger LQ:ForbiddenExcepted quantity:E0IATA-packing instructions - Passenger:ForbiddenIATA-max. quantity - Passenger:ForbiddenIATA-max. quantity - Cargo:855IATA-max. quantity - Cargo:30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:NoSECTION 15: Regulatory informationEU regulatory informationRestrictions on use (REACH, annex XVII): Entry 3 Information according to DirectiveNot subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III):Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.National regulatory informationEmployment restrictions:Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).				
Limited quantity Passenger:ForbiddenPassenger LQ:ForbiddenExcepted quantity:E0IATA-packing instructions - Passenger:ForbiddenIATA-max. quantity - Passenger:ForbiddenIATA-max. quantity - Passenger:ForbiddenIATA-max. quantity - Cargo:855IATA-max. quantity - Cargo:30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:NoSECTION 15: Regulatory informationRestrictions on use (REACH, annex XVII): Entry 3Information according to Directive 2012/18/EU (SEVESO III)Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.Mational regulatory information Employment restrictions:Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).		•		
Passenger LQ: Forbidden Excepted quantity: E0 IATA-packing instructions - Passenger: Forbidden IATA-max. quantity - Passenger: Forbidden IATA-max. quantity - Cargo: 855 IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: ENVIRONMENTALLY HAZARDOUS: No SECTION 15: Regulatory information Section specific for the substance or mixture EU regulatory information EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	•			
Excepted quantity:E0IATA-packing instructions - Passenger:ForbiddenIATA-max. quantity - Passenger:ForbiddenIATA-max. quantity - Passenger:SolutionIATA-max. quantity - Cargo:30 LIATA-max. quantity - Cargo:30 LIATA-max. quantity - Cargo:NoSection 15: Regulatory informationSection 15: Regulatory informationSection 15: Regulatory informationRestrictions on use (REACH, annex XVII): Entry 3Information according to DirectiveNot subject to 2012/18/EU (SEVESO III)2012/18/EU (SEVESO III):Not subject to 2012/18/EU (SEVESO III)2012/148/EU (SEVESO III):Not subject to 2012/18/EU (SEVESO III)Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.Mational regulatory informationObserve restrictions to employm				
IATA-packing instructions - Passenger: Forbidden IATA-max. quantity - Passenger: Forbidden IATA-max. quantity - Cargo: 855 IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: Restrictions on use (REACH, annex XVII): No Entry 3 Information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Conserve restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).				
IATA-max. quantity - Passenger: Forbidden IATA-packing instructions - Cargo: 855 IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards 80 L ENVIRONMENTALLY HAZARDOUS: No SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Not subject to 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).		E0		
IATA-packing instructions - Cargo: 855 IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards 50 L ENVIRONMENTALLY HAZARDOUS: No SECTION 15: Regulatory information SECTION 15: Regulatory information SECTION 15: Regulatory information SECTION 15: Regulatory information SECTION 16: Cargo: SECTION 15: Regulatory information Restrictions on use (REACH, annex XVIII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).				
IATA-max. quantity - Cargo: 30 L 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No SECTION 15: Regulatory information Section second section section second secti				
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).				
ENVIRONMENTALLY HAZARDOUS: No SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Not subject to 2019/1148/EI (SEVESO III) Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Cobserve restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).			30 L	
SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Natketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	14.5. Environmental hazards			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	ENVIRONMENTALLY HAZARDOUS:	No		
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	SECTION 15: Regulatory information			
Restrictions on use (REACH, annex XVII): Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).		ulations/legislation s	pecific for the substance or mixture	
Entry 3 Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Not subject to 2019/1148): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	EU regulatory information			
Information according to Directive Not subject to 2012/18/EU (SEVESO III) 2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).				
2012/18/EU (SEVESO III): Marketing and use of explosives precursors (Regulation (EU) 2019/1148): Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).		:		
 Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 	Entry 3			
 (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 	Entry 3 Information according to Directive		2/18/EU (SEVESO III)	
the relevant national contact point. National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	Entry 3 Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 201		
National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	Entry 3 Information according to Directive 2012/18/EU (SEVESO III): Marketing and use of explosives precurso	Not subject to 201 rs (Regulation (EU) 2	2019/1148):	
Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	Entry 3 Information according to Directive 2012/18/EU (SEVESO III): Marketing and use of explosives precurso Acquisition, introduction, possession of	Not subject to 201 rs (Regulation (EU) 2 or use of this product	2019/1148): by the general public is restricted by Regulation	
work protection guideline' (94/33/EC).	Entry 3 Information according to Directive 2012/18/EU (SEVESO III): Marketing and use of explosives precurso Acquisition, introduction, possession of (EU) 2019/1148. All suspicious transa	Not subject to 201 rs (Regulation (EU) 2 or use of this product	2019/1148): by the general public is restricted by Regulation	
	Entry 3 Information according to Directive 2012/18/EU (SEVESO III): Marketing and use of explosives precurso Acquisition, introduction, possession of (EU) 2019/1148. All suspicious transa the relevant national contact point.	Not subject to 201 rs (Regulation (EU) 2 or use of this product	2019/1148): by the general public is restricted by Regulation	
Water hazard class (D): 1 - slightly hazardous to water	Entry 3 Information according to Directive 2012/18/EU (SEVESO III): Marketing and use of explosives precurso Acquisition, introduction, possession of (EU) 2019/1148. All suspicious transa the relevant national contact point. National regulatory information	Not subject to 201 ors (Regulation (EU) 2 or use of this product ctions, and significan Observe restriction	2019/1148): by the general public is restricted by Regulation t disappearances and thefts should be reported to ns to employment for juveniles according to the 'juve	enile
	Entry 3 Information according to Directive 2012/18/EU (SEVESO III): Marketing and use of explosives precurso Acquisition, introduction, possession of (EU) 2019/1148. All suspicious transa the relevant national contact point. National regulatory information Employment restrictions:	Not subject to 201 ors (Regulation (EU) 2 or use of this product ctions, and significan Observe restriction work protection gu	2019/1148): by the general public is restricted by Regulation t disappearances and thefts should be reported to ns to employment for juveniles according to the 'juve ideline' (94/33/EC).	enile

Changes

This data sheet contains changes from the previous version in section(s): 1,12.

Abbreviations and acronyms

Ox. Liq: Oxidising liquid Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eye Dam: Eye damage



ICP concentrate dyprosium 10.000 g Dy/I Dy2O3 in nitric acid 5 % traceable to NIST

Revision date: 28.03.2024

Product code: 26972

Page 11 of 11

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
EUH071	Corrosive to the respiratory tract.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)