acc. to Regulation (EC) No. 1907/2006 (REACH)

Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18 date of compilation: 2016-11-04 Version: **4.0 en** Revision: 2024-03-02

Replaces version of: 2022-02-21

Version: (3)

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

Product identifier 1.1

Identification of the substance **Cerium(III) nitrate hexahydrate** ≥99,5 %, p.a.

Article number HN₁₈

EC number 233-297-2 CAS number 10294-41-4

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for private purposes (household).

Food, drink and animal feedingstuffs.

Details of the supplier of the safety data sheet 1.3

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data
Department Health, Safety and Environment

sheet:

sicherheit@carlroth.de e-mail (competent person):

1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1

Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.14	Oxidising solid	2	Ox. Sol. 2	H272
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1A	Hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	Hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

United Kingdom (en) Page 1 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)

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Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS03, GHS05, GHS09



Hazard statements

H272 May intensify fire; oxidiser H318 Causes serious eye damage

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P220 Keep away from clothing as well as other incompatible materials

P273 Avoid release to the environment

P280 Wear protective gloves/eye protection/face protection

Precautionary statements - response

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

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Cerium(III) nitrate hexahydrate

Molecular formula $Ce(NO_3)_3 \cdot 6 H_2O$

Molar mass 434,2 ^g/_{mol}

CAS No 10294-41-4

EC No 233-297-2

United Kingdom (en) Page 2 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact

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.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Risk of blindness, Risk of serious damage to eyes

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Oxidising property. Non-combustible.

Hazardous combustion products

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

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

United Kingdom (en) Page 3 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid dust formation.

Measures to prevent fire as well as aerosol and dust generation

Keep away from combustible material.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep container tightly closed. Hygroscopic solid.

Incompatible substances or mixtures

Observe hints for combined storage. Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

Protect against external exposure, such as

high temperatures, humidity, contact with air/oxygen

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

United Kingdom (en) Page 4 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Environmental values

Relevant PNECs and other threshold levels End-**Threshold Environmental com-Organism Exposure time** level point partment **PNEC** $0.13 \, \mu g/_{1}$ aquatic organisms freshwater short-term (single instance) **PNEC** $0,013 \, \mu g/I$ aquatic organisms marine water short-term (single instance) **PNEC** 9,1 ^{mg}/_l aquatic organisms sewage treatment plant short-term (single instance) (STP) 17,1 ^{mg}/_{kg} **PNEC** aquatic organisms freshwater sediment short-term (single instance) 1,71 ^{mg}/_{kg} **PNEC** marine sediment aquatic organisms short-term (single instance) 0,451 ^{mg}/_{kg} **PNEC** terrestrial organisms soil short-term (single instance)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection.

Skin protection





hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

United Kingdom (en) Page 5 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)

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Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid

Form crystalline

Colour white

Odour faintly perceptible

Melting point/freezing point >57 °C (Release of crystal water)

Boiling point or initial boiling point and boiling

range

not determined

Flammability non-combustible
Lower and upper explosion limit not determined
Flash point not applicable
Auto-ignition temperature >400 °C (ECHA)

Decomposition temperature 140 °C at 982 hPa (ECHA)

pH (value) 3,7 (in aqueous solution: 100 ^g/_l, 25 °C)

Kinematic viscosity not relevant

Solubility(ies)

Water solubility >600 ^g/_I (ECHA)

Partition coefficient

Partition coefficient n-octanol/water (log value): not relevant (inorganic)

United Kingdom (en) Page 6 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)

ROTH

Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

Vapour pressure not determined

Density and/or relative density

Density not determined

Relative vapour density Information on this property is not available.

There is no additional information.

Particle characteristics No data available.

Other safety parameters

Oxidising properties oxidiser

9.2 Other information

Information with regard to physical hazard

classes:

Other safety characteristics: There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

It's a reactive substance. Oxidising property.

10.2 Chemical stability

Moisture-sensitive. Hygroscopic solid.

10.3 Possibility of hazardous reactions

Violent reaction with: Cyanides, Reducing agents, Strong alkali, Strong acid

10.4 Conditions to avoid

Keep away from heat. Decompostion takes place from temperatures above: 140 °C at 982 hPa. Protect from moisture.

10.5 Incompatible materials

combustible materials

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed or in contact with skin.

United Kingdom (en) Page 7 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

Acute toxicity						
Exposure route	Endpoint	Value	Species	Method	Source	
oral	LD50	4.200 ^{mg} / _{kg}	rat		ECHA	
dermal	LD50	>2.000 ^{mg} / _{kg}	rat		ECHA	

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

Data are not available.

• If in eyes

Causes serious eye damage, risk of blindness

• If inhaled

Data are not available.

• If on skin

Data are not available.

Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

United Kingdom (en) Page 8 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure time
LC50	0,13 ^{mg} / _l	rainbow trout	ECHA	96 h
EC50	6,9 ^{mg} / _l	daphnia magna	ECHA	48 h
ErC50	0,63 ^{mg} / _l	algae	ECHA	72 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

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

United Kingdom (en) Page 9 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)

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Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

Properties of waste which render it hazardous

HP 2 oxidising

HP 4 irritant - skin irritation and eye damage

HP 14 ecotoxic

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADRRID UN 1477
IMDG-Code UN 1477
ICAO-TI UN 1477

14.2 UN proper shipping name

ADRRID NITRATES, INORGANIC, N.O.S. IMDG-Code NITRATES, INORGANIC, N.O.S.

ICAO-TI Nitrates, inorganic, n.o.s.

14.3 Transport hazard class(es)

ADRRID 5.1 IMDG-Code 5.1 ICAO-TI 5.1

14.4 Packing group

ADRRID II
IMDG-Code II
ICAO-TI II

14.5 Environmental hazards hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name NITRATES, INORGANIC, N.O.S.

Particulars in the transport document UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II,

(E), environmentally hazardous

Classification code O2

Danger label(s) 5.1, "Fish and tree"

United Kingdom (en) Page 10 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)

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Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18





Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 511

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 kg

Transport category (TC) 2

Tunnel restriction code (TRC) E

Hazard identification No 50

Emergency Action Code 1Y

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

Classification code O2

Danger label(s) 5.1, "Fish and tree"





Environmental hazards Yes

Hazardous to water

Special provisions (SP)511Excepted quantities (EQ)E2Limited quantities (LQ)1 kgTransport category (TC)2Hazard identification No50

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name NITRATES, INORGANIC, N.O.S.

Particulars in the shipper's declaration UN1477, NITRATES, INORGANIC, N.O.S., 5.1, II,

MARINE POLLUTANT

Marine pollutant yes (hazardous to the aquatic environment)

Danger label(s) 5.1, "Fish and tree"





Special provisions (SP)

Excepted quantities (EQ) E2
Limited quantities (LQ) 1 kg

EmS F-A, S-Q

Stowage category A

United Kingdom (en) Page 11 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Nitrates, inorganic, n.o.s.

Particulars in the shipper's declaration UN1477, Nitrates, inorganic, n.o.s., 5.1, II

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 5.1



Special provisions (SP)

Excepted quantities (EQ)

Limited quantities (LQ)

2,5 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)						
No	Dangerous substance/hazard categories		(tonnes) for the ap- and upper-tier re- ments	Notes		
P8	oxidising liquids and solids	50	200	55)		

Notation

55) Oxidising liquids, category 1, 2 or 3, or oxidising solids, category 1, 2 or 3

Deco-Paint Directive

VOC content	0 %
l l	

Industrial Emissions Directive (IED)

VOC content	0 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

United Kingdom (en) Page 12 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Cerium(III) nitrate hexahydrate	Substances which contribute to eutrophication (in particular, nitrates and phosphates)		a)	
Cerium(III) nitrate hexahydrate	Metals and their compounds		a)	

Legend

a)

Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) \prime SVHC - candidate list

not listed

Restrictions according to GB REACH, Annex 17

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed

United Kingdom (en) Page 13 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

Country	Inventory	Status
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8	Classification code: 5.1	Classification code: O2	yes
15.1	Restrictions according to REACH, Annex XVII		yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1	List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list: Not listed.		yes
15.1		National regulations(GB)	yes
15.1		List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list: not listed	yes

United Kingdom (en) Page 14 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1		Restrictions according to GB REACH, Annex 17: not listed	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)

United Kingdom (en) Page 15 / 16

acc. to Regulation (EC) No. 1907/2006 (REACH)



Cerium(III) nitrate hexahydrate ≥99,5 %, p.a.

article number: HN18

Abbr.	Descriptions of used abbreviations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H272	May intensify fire; oxidiser.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

United Kingdom (en) Page 16 / 16