

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

#### 1.1. Product identifier

Product form : Substance  
Trade name : Cerium carbonate  
Chemical name : Dicerium tricarbonat  
EC-No. : 208-655-6  
CAS-No. : 537-01-9  
REACH registration No : 01-2119548389-24-0007

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Raw material for chemistry

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

German Trading Service GmbH  
Lauenburger Landstraße 78  
21039 Börnsen - Germany  
T +49 40 739115 - F +49 40 7387059  
[www.gts-hamburg.de](http://www.gts-hamburg.de)

##### Email competent person

sds@kft.de

#### 1.4. Emergency telephone number

Emergency number : National Health Service (NHS)  
24 hour national number consumer  
England and Scotland: 111  
Wales: 0845 46 47  
Northern Ireland: call your local General Practitioner  
  
Call 999 if there is a life-threatening incident.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# Cerium carbonate

## Safety Data Sheet

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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	%
Dicerium tricarbonat	(CAS-No.) 537-01-9 (EC-No.) 208-655-6 (REACH-no) 01-2119548389-24-0007	-

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Strong water jet.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Metal oxides.
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#### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area.
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##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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#### 6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information	: Disposal must be done according to official regulations.

# Cerium carbonate

## Safety Data Sheet

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

### 6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.  
Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Dicermium tricarbonate (537-01-9)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	3.75 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	1.88 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1.88 mg/kg bodyweight/day

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

In case of repeated or prolonged contact wear gloves. EN 374. For undissolved solid substances following materials may be suitable: Butyl rubber, Chloroprene rubber, Fluoroelastomer (FKM), Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

#### Eye protection:

In case of dust production: protective goggles. EN 166

#### Skin and body protection:

Wear suitable protective clothing. EN 340

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Particle filter. P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

# Cerium carbonate

## Safety Data Sheet

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

### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Beige.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: > 400 °C (OECD 102 method)
Freezing point	: Not applicable
Boiling point	: > 400 °C (OECD 103 method)
Flash point	: Not applicable
Auto-ignition temperature	: > 400 °C (Test method EU A.16)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: No data available
Density	: 2.29 g/cm <sup>3</sup> (20 °C; (OECD 109 method))
Solubility	: Water: 3.95 mg/l (20 °C; (OECD 105 method))
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive. Test method EU A.14. Dust may form explosive mixture in air.
Oxidising properties	: Non oxidizing. Test method EU A.17.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Oxidizing agent. Acids.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

# Cerium carbonate

## Safety Data Sheet

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

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

<b>Dicerium tricarbonat (537-01-9)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
Additional information : rabbit  
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
Additional information : rabbit  
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)  
Additional information : Guinea pig  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Additional information : (OECD 471 method)  
(OECD 473 method)  
(OECD 476 method)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
Additional information : (OECD 422 method)

<b>Dicerium tricarbonat (537-01-9)</b>	
NOAEL (animal/male, F1)	1000 mg/kg bodyweight/day
NOAEL (animal/female, F1)	1000 mg/kg bodyweight/day

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)  
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)  
Additional information : (OECD 422 method)  
(OECD 413 method)

<b>Dicerium tricarbonat (537-01-9)</b>	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.0505 mg/l/6h/day
NOAEL (oral, rat, 90 days)	450 mg/kg bodyweight/day
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.005 mg/l/6h/day

Aspiration hazard : Not classified (Not relevant)

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)  
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

<b>Dicerium tricarbonat (537-01-9)</b>	
LC50 fish 1	> 100 mg/l (96 h; (OECD 203 method); Oncorhynchus mykiss)
EC50 Daphnia 1	> 100 mg/l (48 h; (OECD 202 method); Daphnia magna)
ErC50 (algae)	> 100 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method))
NOEC chronic crustacea	≥ 100 mg/l (21 d; Daphnia magna; (OECD 211 method))
NOEC chronic algae	25 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method))

# Cerium carbonate

## Safety Data Sheet

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

### 12.2. Persistence and degradability

Dicerium tricarbonat (537-01-9)	
Persistence and degradability	Not applicable for inorganic substances.

### 12.3. Bioaccumulative potential

Dicerium tricarbonat (537-01-9)	
Bioaccumulative potential	Not applicable for inorganic substances.

### 12.4. Mobility in soil

Dicerium tricarbonat (537-01-9)	
Partition coefficient n-octanol/water (Log K <sub>oc</sub> )	6.6 (OECD 106 method)
Ecology - soil	Adsorbs into the soil.

### 12.5. Results of PBT and vPvB assessment

Dicerium tricarbonat (537-01-9)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

# Cerium carbonate

## Safety Data Sheet

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

### Air transport

Not applicable

### Inland waterway transport

Not applicable

### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Dicerium tricarbonate is not on the REACH Candidate List

Dicerium tricarbonate is not on the REACH Annex XIV List

Cerium carbonate is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Cerium carbonate is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Other information, restriction and prohibition regulations : A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

No change required according to maintenance check.

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

# Cerium carbonate

## Safety Data Sheet

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

NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency).  
Department issuing data : KFT Chemieservice GmbH  
specification sheet: Im Leuschnerpark. 3 64347 Griesheim  
Germany

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500  
Safety Data Sheet Service: +49 6155 8981-522

Contact person : Dr. Andreas Kretzschmar  
Other information : Version/s 1.00 is/are not available in this language.

KFT SDS EU 00

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.