

Safety Data Sheet

according to UK REACH Regulation

Cerium polishing compound

Revision date: 24.05.2023

Product code: BOCE2601EU

Page 1 of 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Cerium polishing compound

Further trade names

BO CE2601EU, 1kg

BO CE2620EU, 20kg

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

Polishing agent

1.3. Details of the supplier of the safety data sheet

Company name:	BOHLE AG	
Street:	Dieselstr. 10	
Place:	D-42781 Haan	
Telephone:	+49 2129 5568-0	Telefax: +49 2129 5568-282
e-mail:	info@bohle.de	
Contact person:	Dr. Martin Schade	Telephone: +49 2129 5568-300
e-mail:	MSDS@bohle.de	
Internet:	www.bohle.com	
Responsible Department:	Chemie	

1.4. Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
GB CLP Regulation

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements
SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

CERIUM OXIDE

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
	Reaction mass of cerium dioxide and lanthanum fluoride and lanthanum oxide			80-100 %
	909-701-4		01-2119541810-46	

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		
	909-701-4	Reaction mass of cerium dioxide and lanthanum fluoride and lanthanum oxide	80-100 %
	inhalation: LC50 = >5,05 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		

Safety Data Sheet

according to UK REACH Regulation

Cerium polishing compound

Revision date: 24.05.2023

Product code: BOCE2601EU

Page 2 of 6

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Show this safety data sheet to the doctor in attendance.

After inhalation

Provide fresh air. If symptoms persist, call a physician.

After contact with skin

Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

After contact with eyes

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

After ingestion

If conscious, drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician. Do not leave the victim unattended.

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

No data available

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**

water spray dry powder foam carbon dioxide (CO₂)

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

The product is not flammable.

5.3. Advice for firefighters

In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Standard procedure for chemical fires.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protective equipment. Suitable mask with particle filter P3 (European Norm 143). Wear suitable gloves. safety glasses.

6.2. Environmental precautions

Ecological injuries are not known or expected under normal use. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**For cleaning up**

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. Flush with water.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

Safety Data Sheet

according to UK REACH Regulation

Cerium polishing compound

Revision date: 24.05.2023

Product code: BOCE2601EU

Page 3 of 6

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Dust must be extracted directly at the point of origin. Avoid contact with skin and eyes. Do not breathe vapours/dust.

Advice on general occupational hygiene

Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special storage conditions required. Store at room temperature in the original container. Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
	Reaction mass of cerium dioxide and lanthanum fluoride and lanthanum oxide			
Worker DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	3 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	4,17 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	1,5 mg/m ³	
Consumer DNEL, long-term	oral	systemic	4,17 mg/kg bw/day	

8.2. Exposure controls

Appropriate engineering controls

Local exhaust. Dust must be extracted directly at the point of origin.

Individual protection measures, such as personal protective equipment

Eye/face protection

safety glasses with side-shields conforming to EN166

Hand protection

Wear suitable gloves.

Skin protection

long sleeved clothing

Respiratory protection

Suitable mask with particle filter P3 (European Norm 143)

Environmental exposure controls

Ecological injuries are not known or expected under normal use. Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: powder

Safety Data Sheet

according to UK REACH Regulation

Cerium polishing compound

Revision date: 24.05.2023

Product code: BOCE2601EU

Page 4 of 6

Colour: cream
 Odour: odourless

Melting point/freezing point:
 Boiling point or initial boiling point and boiling range:
 Lower explosion limits:
 Upper explosion limits:
 Flash point:
 pH-Value:
 Water solubility:
 Density (at 25 °C):
 Particle characteristics:

Test method
 > 500 °C OECD 102
 not applicable
 VDI 2263
 VDI 2263
 not applicable
 not applicable
 insoluble OECD 105
 6,8 g/cm³
 < 5 µm

9.2. Other information
Information with regard to physical hazard classes

Explosive properties

No hazards resulting from the material as supplied.

Sustaining combustion:

No data available

Self-ignition temperature

Solid:

> 500 °C

Oxidizing properties

No hazards resulting from the material as supplied.

Other safety characteristics

Solvent content:

0,0 %

Solid content:

100 %

SECTION 10: Stability and reactivity
10.1. Reactivity

No data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use. Avoid dust formation.

10.5. Incompatible materials

No dangerous reaction known under conditions of normal use. strong acids.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in GB CLP Regulation

Safety Data Sheet

according to UK REACH Regulation

Cerium polishing compound

Revision date: 24.05.2023

Product code: BOCE2601EU

Page 5 of 6

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Reaction mass of cerium dioxide and lanthanum fluoride and lanthanum oxide				
	oral	LD50 >2000 mg/kg	Rat		OECD 423
	dermal	LD50 >2000 mg/kg	Rat		OECD 402
	inhalation (4 h) dust/mist	LC50 >5,05 mg/l	Rat		OECD 403

Sensitising effects

No sensitization responses were observed.

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

SECTION 12: Ecological information
12.1. Toxicity

No data available

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	Reaction mass of cerium dioxide and lanthanum fluoride and lanthanum oxide					
	Fish toxicity	NOEC > 100 mg/l	96 d	Danio rerio (zebrafish)		

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

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.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

In accordance with local and national regulations.

Contaminated packaging

In accordance with local and national regulations.

SECTION 14: Transport information
Land transport (ADR/RID)
14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

Safety Data Sheet

according to UK REACH Regulation

Cerium polishing compound

Revision date: 24.05.2023

Product code: BOCE2601EU

Page 6 of 6

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.**14.4. Packing group:** No dangerous good in sense of this transport regulation.**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

Other applicable information

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 0%

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

SECTION 16: Other information

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