Safety Data Sheet

Cerium polishing compound

1. Identification

Product identifier

Cerium polishing compound

Further trade names

BO CE2601EU, 1kg
BO CE2620EU, 20kg

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Polishing agent

Details of the supplier of the safety data sheet

Manufacturer

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	

Supplier

Company name:	Bohle America / Portals Hardware
Street:	925 Lydia Ave
Place:	Kansas City, MO 64106 USA
Telephone:	+1 888 838 6006
E-mail:	support@portalshardware.com

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

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Label elements

3. Composition/information on ingredients

Mixtures

Chemical characterization

CERIUM OXIDE

Relevant ingredients

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
	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	Components	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		

4. First-aid measures

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.

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

water spray dry powder foam carbon dioxide (CO2)

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

The product is not flammable.

Special protective equipment and precautions for fire-fighters

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

6. Accidental release measures

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.

Environmental precautions

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

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.

Reference to other sections

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

7. Handling and storage

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.

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.

8. Exposure controls/personal protection

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/m³
Consumer DNEL, long-term	dermal	systemic	4,17 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,5 mg/m³
Consumer DNEL, long-term	oral	systemic	4,17 mg/kg bw/day

Additional advice on limit values

To date, no national critical limit values exist.

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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	powder
Color:	cream
Odor:	odourless

		Test method
Melting point/freezing point:	> 500 °C	OECD 102
Boiling point or initial boiling point and boiling range:	not applicable	
Lower explosion limits:		VDI 2263
Upper explosion limits:		VDI 2263
Flash point:	not applicable	
pH-Value:	not applicable	
Water solubility:	insoluble	OECD 105
Density (at 25 °C):	6,8 g/cm³	
Particle characteristics:	< 5 µm	

Other information

Information with regard to physical hazard classes

Explosive properties

No hazards resulting from the material as supplied.

Sustained combustibility:	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 %

10. Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None known.

Conditions to avoid

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

Incompatible materials

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

Hazardous decomposition products

None known.

11. Toxicological information

Information on toxicological effects

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

Acute toxicity

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

Sensitizing effects

No sensitization responses were observed.

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

12. Ecological information

Ecotoxicity

No data available

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

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

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

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.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

In accordance with local and national regulations.

Contaminated packaging

In accordance with local and national regulations.

14. Transport information

Land transport (ADR/RID)

UN number or ID number:	No dangerous good in sense of this transport regulation.
UN proper shipping name:	No dangerous good in sense of this transport regulation.
Transport hazard class(es):	No dangerous good in sense of this transport regulation.
Packing group:	No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

15. Regulatory information

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

EU regulatory information

Directive 2004/42/EC on VOC in paints and varnishes:	0%

National regulatory information

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

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11.

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