



MICROBEADS AG
Wambisterstrasse 1a, CH-5412 Gebenstorf / Switzerland
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Trade name : Stainless Steel Shot Chromium

EU - Safety Data Sheet to Regulation (EC) no. 1272/2008 (version 26.03)

Issue date: January 2020

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1. Identification of the substance and the company

Trade name: **Stainless Steel Shot Chromium
CrH, CrM, CrLN**

Use of the product: Blast cleaning
Stone working industry

Company: MICROBEADS AG
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2. Hazards identification

Symbol and hazard identification: not foreseen.

Cr: irritating - dermatitis

Exposure by inhalation of fine powders in large quantities, may produce symptoms called metal fume fever which last 24/48 hours.

MSDS26.03	22/04/2010	Updated for points 1.1; 13
MSDS26.02	22/05/2009	Updated for points 1.1; 3.1
MSDS26.01	22/10/2007	Updated for points 1.3; 2; 3; 15.2
MSDS26.00	19/04/2004	Superseding any unidentified previous issue
Ident Rev.	Date	Description



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3. Composition/Information on ingredients

Fe > 80 %; Cr < 30 %; C < 3 %; Si < 2,5 %

Iron-based smelted alloy. The stated components are in solid solution, not free.
The information reported at point 2.2, 3.3 and 8.1 refer to the single elements component the alloy.

Risk phrases	not foreseen		
Safety phrases	not foreseen		
Chemical name	EINECS/ELINCS N°	CAS N°	INDEX N°
Cr (Chrome)	231-157-5	7440-47-3	-
Fe (Iron)	231-096-4	7439-89-6	-
Si (Silicon)	231-130-8	7440-21-3	-

4. First aid measures

Description of first aid measures

Skin contact : Wash contaminated skin carefully with soap and water. Obtain medical advice if irritation occurs.
Eye contact : Flush eyes carefully with water for a long time. If necessary obtain medical advice.
Inhalation : Move the exposed person to fresh air at once. Perform artificial respiration if necessary. Obtain medical attention as soon as possible.
Ingestion : Rinse mouth carefully with water. If any symptoms persist obtain medical advice.

5. Fire fighting measures

FLAMMABLE: No*
*Special attention must be paid to processes and/or systems that might raise clouds of very fine powder, likely to be flammable in the presence of primers.
Avoid ignition sources.
To avoid electrostatic discharges, assure the electric bonding of metallic tins and plants.

Subject to spontaneous combustion: No
Extinguish media: Dry powder extinguisher class D, dry sand.
Protective equipment: Wear oxygen respirator and suitable personal safety devices (protective clothing, shoes, helmet, gloves and glasses).



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6. Accidental release measures

Personal precautions:	Prevent contact with skin and eyes by putting on the personal safety devices stated in point 8.2.
Environmental precautions:	Keep product away from sewers, surface and underground waters and from the ground.
Cleaning up method:	Do not use compressed air. Place in a container for recycling with a small shovel.

7. Handling and storage

Storage information:	Covered, dry and naturally-ventilated area. Avoid placing material on the floor. Do not stack more than 3 pallets high (for products packed in drums). Do not stack more than 1 pallet high (for product packed in big-bags).
Preservation information:	Keep product closed in its original packing. It is advisable to use material within 6 month from its forwarding date.

8. Exposure controls / personal protection

Exposure limit values:	TLV – TWA (ACGIH) [10 mg/m ³]: Cr = 0,5 Fe = 10
Ventilation:	Work area must be sufficiently ventilated to keep concentration below the exposure limit.
Occupational exposure controls	
Respiratory protection:	Filter mask FFP3 (S)
Hand protection:	leather gloves according to EN 388 standard
Eye protection:	safety glasses
Personal hygiene:	No smoking, eating or drinking in the work area.



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9. Physical and chemical properties

Physical state:	solid
Form:	irregular granules
Colour:	metallic grey
Apparent density:	2,5 - 4,5 g/cm ³
Specific weight:	7,6 - 7,8 g/cm ³ at 20°C
Melting point:	1480 - 1540 °C
Water solubility (mg/l):	No

10. Stability and reactivity

Stability at usual conditions: stable

Possibilities of decomposition:

in water	No
in acids	Yes

Acid contact may generate flammable gas.

Materials to avoid: Acids.

11. Toxicological information

Toxicity by different routes of exposure:

Inhalation	n.d. (*)
Ingestion	n.d. (*)
Skin contact	n.d. (*)
Eye contact	n.d. (*)

12. Ecological information

Ecotoxicity:	n.d. (*)	
Mobility:	n.d. (*)	
Persistence and degradability:	n.d. (*)	
Bio accumulative potential:	n.d. (*)	(*) see point 16.3

13. Disposal consideration

Disposal procedures according to decision 2000/532/EC as amended by the decisions 2001/118/EC, 2001/119/EC, 2001/573/EC and 2008/98/EC.

14. Transport information

Road / Rail / Inland waterways Transport (RID/ADR/ADN)	Maritime transport (IMDG code)	Air transport (IATA /ICAO T.I.)
Product not classified as dangerous		



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15. Regulatory information

The safety data sheet has been made according to title IV of EC Regulatory no. 1907/2006 of European Commission and Council dd. December 18th, 2006 concerning restriction, evaluation, authorization and restriction of chemicals (REACH).

16. Other information

Risk and safety phrases list: not foreseen

Employee training advice: training on explosion risk for very fine metal powders.

Meaning of "n.d." initials (points 11 and 12):

No specific test reports and/or data publication available at present.

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