

SAFETY DATA SHEET

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

Revision date: 12 Jul 2021

Print date: 22 Jul 2021

Version: 2.0

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Magnet for split-cast 20 x 6 m

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

1.1 Product identifier

Trade name/designation:

Magnet for split-cast 20 x 6 m

Other means of identification:

UFI: not required

Article No.:

10055

Additional information:

This product is not subject to Regulation (EC) no. 1272/2008 [CLP] and do not require labeling according this regulation. Industrial use of substances in closed systems: This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

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

Use of the substance/mixture:

Ferrite magnets for split-cast application (dental application).

For professional use only.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Mälzer Dental GmbH & Co. KG

Schlesierweg 27

31515 Wunstorf

GERMANY

Telephone: +49 (0) 5033 963099-0

Telefax: +49 (0) 5033 963099-99

E-mail: info@maelzer-dental.de

Website: <https://www.maelzer-dental.de>

E-mail (competent person): info@maelzer-dental.de

1.4 Emergency phone number

+49 (0) 5033 963099-0 (Only available during office hours.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: -

Supplemental hazard information: -

Precautionary statements - General: -

2.3 Other hazards

Adverse human health effects and symptoms:

Dust by mechanical processing: May cause eye irritation. May cause respiratory irritation.

splitters by mechanical damage: May cause injuries to eyes and skin (cuts).

Other adverse effects:

Persons with pacemakers must not be near the magnets. Impairment or damage to electronic devices and magnetic data carriers possible. Sufficient distance required.

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SECTION 3: Composition / information on ingredients

3.2 Mixtures

Description:

The product contains: Fe₂O₃ (CAS No. 1309-37-1) 89,0 weight-%, SrO (CAS No. 1314-11-0) 9,2 weight-%.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

No special measures are necessary. If dust is generated: May cause respiratory irritation.

In case of skin contact:

No special measures are necessary. cuts: Stop bleeding / dress wounds. Get immediate medical advice/attention.

After eye contact:

No special measures are necessary. In case of a mechanical injury to the eyes, rinse immediately with plenty of water, stop any bleeding and immediately seek treatment by an ophthalmologist.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date.

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:

The product is not: Combustible. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the substance or mixture

No special measures are necessary.

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Personal precautions:

No special measures are necessary.

Protective equipment:

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Wear eye/face protection.

6.1.2 For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

For containment:

Take up mechanically.

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6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advices on safe handling:

No special measures are necessary. Mechanical processing may cause dust. Do not breathe dust. Wear personal protection equipment (refer to section 8). Avoid dust formation.

Fire prevent measures:

No special fire protection measures are necessary.

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Store dry. Protect from moisture.

Hints on storage assembly:

No special measures are necessary.

7.3 Specific end use(s)

Recommendation:

Ferrite magnets for split-cast application (dental application).

Observe technical data sheet.

SECTION 8: Exposure controls / Personal protection

8.1 Control parameters

8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	Dust, respirable fraction	① 4 mg/m ³ ⑤ (Dust limit value, respirable fraction)
WEL (GB)	Dust, inhalable fraction	① 10 mg/m ³ ⑤ (Dust limit value, inhalable fraction)

8.1.2 Biological limit values

No data available.

8.1.3 DNEL-/PNEC-values

No data available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2 Personal protection equipment

Eye/face protection:

In case of dust by mechanical processing: Eye glasses with side protection (EN 166)

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Skin protection:

Recommendation: Protective gloves against mechanical hazard

Suitable material: Leather

Thickness of the glove material: not determined

Breakthrough time:: not relevant

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

Usually no personal respiratory protection necessary. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Particle filter device (EN 143). Filter type P2/P3

Other protection measures:

Wear suitable protective clothing.

8.2.3 Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: solid (molded parts)

Colour: metallic

Odour: odourless

Safety relevant basic data

Parameter		at	Method	Remark
pH	<i>not determined</i>			
Melting point	1,600 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not applicable</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not applicable</i>			
Auto-ignition temperature	<i>not applicable</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not applicable</i>			
Vapour density	<i>not applicable</i>			
Density	7.5 g/cm ³	20 °C		
Bulk density	<i>not applicable</i>			
Water solubility	insoluble			
Partition coefficient: n-octanol/water	<i>not applicable</i>			
Dynamic viscosity	<i>not applicable</i>			
Kinematic viscosity	<i>not applicable</i>			
Benutzerdefinierter PC-Wert	<i>not determined</i>			

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

not relevant

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Humidity

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10.5 Incompatible materials

Alkali (lye), Acids, Water.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

Further information

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.
particulates and dust: May cause eye irritation.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.
Inhalation of dust may cause irritation of the respiratory system.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

splitters by mechanical damage: May cause injuries to eyes and skin (cuts).

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Based on available data, the classification criteria are not met.

Assessment/classification:

The substance is not soluble in water.

Additional ecotoxicological information:

Discharge into the environment must be avoided.

12.2 Persistence and degradability

Biodegradation:

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

not applicable

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Accumulation / Evaluation:

The substance is not soluble in water. No indication of bioaccumulation potential.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.





Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal.

13.2 Additional information

Waste for disposal is to be classified and labelled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
14.1 UN-No.			
2807	2807	2807	2807
14.2 UN proper shipping name			
Magnetized material	Magnetized material	Magnetized material	Magnetized material
14.3 Transport hazard class(es)			
 9	 9	 9	 9
14.4 Packing group			
No data available.			
14.5 Environmental hazards			
No	No	No	-

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
14.6 Special precautions for user			
Special provisions: - Limited Quantity (LQ): - Excepted Quantities (EQ): Hazard identification number (KemlerNo.): - Classification code: M11 Remark: no dangerous good	Special provisions: - Limited Quantity (LQ): - Excepted Quantities (EQ): Classification code: M11 Remark: no dangerous good	Special provisions: - Limited Quantity (LQ): - Excepted Quantities (EQ): EmS-No.: - Remark: no dangerous good	Special provisions: - Limited Quantity (LQ): - Excepted Quantities (EQ): Remark: Pay attention for Technical Instruction 953.

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

not relevant

Additional information:

When shipped as air freight, shielding in accordance with the applicable IATA dangerous goods regulations is necessary. A sufficient shielding must be documented with the shippers' declaration so that the package can be transported as non-hazardous goods.

SECTION 15: Regulatory information

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

15.1.1 EU legislation

Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.1.2 National regulations

No data available.

15.2 Chemical Safety Assessment

No data available.

SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 2.0:
General revision

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16.2 Abbreviations and acronyms

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
ATE = acute toxicity estimate
AVV = Abfallverzeichnis-Verordnung
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
BGI = Berufsgenossenschaftliche Informationen
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LGK = Lagerklasse
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Content
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Content
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value - time-weighted average
TLV®STEL = Threshold limit value - short-time exposure limit
TRGS = Technical Rules for Hazardous Substances
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <http://www.echa.europa.eu>
ECHA, C&L Inventory: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>
ECHA, Registered substances: <http://echa.europa.eu/information-on-chemicals/registered-substances>
GESTIS (Gefahrstoffinformationssystem der DGUV): <http://www.dguv.de/ifa/GESTIS/index.jsp>
Hörsch Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz
Safety data sheets of the manufacturers

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5 Relevant H- and EUH-phrases

No data available.

16.6 Training advice

No data available.

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16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.