

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

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CAS No.: --
EG No.: --
INDEX No.: --
REACH No.: --**1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses: Filling granules for the dental thermoforming
Uses advised against: Other**1.3. Details of the supplier of the safety data sheet****Manufacturer**ERKODENT Erich Kopp GmbH
Siemensstrasse 3Telephone: +49 7445 8501 0
Telefax: +49 7445 2092--
D 72285 Pfalzgrafenweiler**Supplier (manufacturer/importer/only representative/downstream user/distributor)**ERKODENT Erich Kopp GmbH
Siemensstrasse 3Telephone: +49 7445 8501 0
Telefax: +49 7445 2092--
D 72285 Pfalzgrafenweiler**Information contact**

ERKODENT Erich Kopp GmbH

Information telephone: +49 7445 8501 21

Information telefax: --

E-mail (competent person): w.heuchert@erkodent.com

Website: www.erkodent.com

1.4. Emergency telephone numberERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone: +49 7445 8501 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008: - No dangerous material! (!)

2.2. Label elements

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

Hazard pictograms: -

Signal word: -

Hazard statements: -

Precautionary statements: -

Hazardous component(s) for labelling
none

Special labelling of particular preparations:
none

2.3. Other hazards

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. The product does not have to be labelled according to guideline 67/548/EEC.

SECTION 3: Composition / information on ingredients

3.1. Substances

Mixtures

3.2. Mixtures

Compact metal/alloy without hazards for human health or environment

Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
Mangan, powder	231-105-1	7439-96-5			0,3 - 0,6%	-
Carbon	231-153-3	7440-44-0			0,3 - 0,6%	-
Silicium	231-130-8	7440-21-3			0,1 - 0,3%	-
Iron, powder	231-096-4	7439-89-6			> 95%	-
Filling granules						-

(Full text of H- and EUH-phrases: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: No special measures are necessary.
Following inhalation: Provide fresh air. Seek medical attention if problems persist.
Following skin contact: No special measures are necessary. Not an irritant.
After eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.
After ingestion: No special measures are necessary.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings. Non-combustible solids

Unsuitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

none

5.3. Advice for firefighters

General information

Co-ordinate fire-fighting measures to the fire surroundings.

Special protective equipment for firefighters:

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

6.2. Environmental precautions

No special environmental protection measures are necessary.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

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

Advices on safe handling

No special measures are necessary.

Precautions against fire and explosion

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special precautionary measures are necessary.

Hints on joint storage

No special precautionary measures are necessary.

Storage class: 10-13

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit value

Substance:	CAS-No.:	Source :	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
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Substance with a common (EC) occupational exposure limit value

Substance:	CAS-No.:	Source :	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
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DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
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PNEC Value

Substance:	CAS-No.:	PNEC
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Remark:

none

8.2. Exposure controls

Occupational exposure controls

none

General protection and hygiene measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off immediately all contaminated clothing.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Hand protection

Hand protection is not required Apply skin care products after work.

Eye/face protection

Tightly sealed safety glasses.

Body protection

Body protection: not required.

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: solid
Colour: metallic
Odour: none

Odour threshold: not applicable

Safety relevant basis data

Parameter	Value	Unit	Remark
pH:			not applicable
Melting point/freezing point:	1600 - 1650	°C	
Initial boiling point and boiling range:			not determined
Flash point:			not applicable
Evaporation rate:			not applicable
Flammability (solid, gas):			not applicable
Explosive properties:			not determined
Lower flammability or explosive limits:			not determined
Upper flammability or explosive limits:			not determined
Vapour pressure:			not applicable
Vapour density:			not applicable
Relative density:			not determined
Density:	7,6	g/cm³	
Solubility(ies):	:		not determined
Water solubility:			practically insoluble
Fat solubility:			not determined
Partition coefficient: n-octanol/water:			not determined
Auto-ignition temperature:			not determined
Decomposition temperature:			not determined
Viscosity:			not determined
Oxidising properties:			not determined
Solvent content:			not applicable

9.2. Other information

none

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Exothermic reactions with: Acid. Oxidizing agents. Base.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data are not available.

M-factor: --

Acute toxicity (oral): --

Acute toxicity (dermal): --

Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
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Skin corrosion/irritation

Toxicological data are not available.

Serious eye damage/irritation

Toxicological data are not available.

Respiratory or skin sensitisation

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No information available.

Germ cell mutagenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

Toxicological data are not available.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
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12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

List of proposed waste codes/waste designations in accordance with EWC

Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: -

Waste code packaging: -

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

ADR / RID

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IMDG / ICAO-TI / IATA-DGR

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14.3. Transport hazard class(es)

Hazard label(s): --

Classification Code:

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14.4. Packing group

Packing Group: --

14.5. Environmental hazards

Labelling environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:

☐ yes / ☒ no

Marine Pollutant:

☐ yes / ☒ no

14.6. Special precautions for user

Land transport (ADR/RID)

Transport category: --

Special provisions: --

Tunnel restriction code: --

Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: --

Special provisions: --

Limited quantity (LQ): --

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

Remark: No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register:

No information available.

Regulation (EC) No 1005/2009 on substance that deplete the ozone layer:

No information available.

Regulation (EC) No 648/2004 on detergents:

No information available.

Regulation (EC) No 850/2004 on persistent organic pollutants:

No information available.

Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals:

No information available.

Restrictions according to Title VIII of Regulation (EC) No 1907/2006:

No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

none

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out for this substance: --

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text)

Hazard statements

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Training advice

none

Recommended restrictions of use

none

Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Documentation of changes

none

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

AC: Artikelkategorie (Article Category)
ACGIH: Rat für Arbeitsschutz und Gefahrstoffe, Amerika (American Conference of Government Industrial Hygienists)
ADN: Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf Binnengewässern (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße (Accord européen relatif transport des marchandises dangereuses par route)
AGW: Arbeitsplatzgrenzwert
AOX: Adsorbierbare organisch gebundene Halogene (Adsorbable Organic halogen compounds)
Bw: Körpergewicht (Body weight)
CMR: Stoffe klassifiziert als Krebszeugend, Mutagen oder Reproduktionstoxisch (Carcinogenic, Mutagenic, toxic for Reproduction)
CSR: Stoffsicherheitsbericht (Chemical Safety Report)
DIN: Deutsches Institut für Normung / Deutsche Industrienorm
DNEL: Grenzwert, unterhalb dessen der Stoff keine Wirkung ausübt (Derived No Effect Level)
DPD: Zubereitungsrichtlinie / Richtlinie 1999-45-EC (Dangerous Preparations Directive)
DSD: Stoffrichtlinie / Richtlinie 67-548-EC (Dangerous Substances Directive)
DU: Nachgeschalteter Anwender (Downstream User)
EC50: Wirksame Konzentration 50% (Effective Concentration 50%)
EWC/EWL: Europäischer Abfallartenkatalog (European Waste Catalogue)
IATA: Verband für den internationalen Lufttransport (International Air Transport Association)
IBC: Großpackmittel (Intermediate Bulk Container)
ICAO: Internationale Zivilluftfahrt-Organisation (International Civil Aviation Organization)
IMDG Code: Gefahrgutvorschriften für den internationalen Seetransport (International Maritime Dangerous Goods Code)
IMO: Internationale Seeschiffahrts-Organisation (International Maritime Organization)
ISO: Internationale Normungsorganisation (International Standards Organisation)
LC50: Lethale (Tödliche) Konzentration 50%
LD50: Lethale (Tödliche) Dosis 50%
LEV: Lokale Absaugung (Local exhaust ventilation)
MAK: Maximale Arbeitsplatzkonzentration – DFG
OEL: Arbeitsplatzgrenzwert (Occupational Exposure Limit)
PBT: persistent, bioakkumulierbar, giftig (persistent, bioaccumulative, toxic)
PNEC: Abgeschätzte Nicht-Effekt-Konzentration (Predicted No Effect Concentration)
PPE/PSA: Persönliche Schutzausrüstung (Personal Protective Equipment)
REACH: Registrierung, Bewertung und Zulassung von Chemikalien (Registration, Evaluation and Authorization of Chemicals)
RID: Gefahrgutvorschriften für den Transport mit der Eisenbahn (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Grenzwert für Kurzzeiteexposition (Short-term Exposure Limit)
SVHC: Stoff sehr hoher Besorgnis (Substance of Very High Concern)
TLV: Arbeitsplatzgrenzwert (Threshold Limit Value)
VOC: Flüchtige organische Kohlenwasserstoffe (Volatile Organic Compounds)
vPvB: sehr persistent, sehr bioakkumulierbar (very persistent, very bioaccumulative)

