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Revision: 23.04.2024

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.04.2024

Version number 4 (replaces version 3)

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

- · 1.1 Product identifier
 - · Trade name: HeraCeram Stainfluid MF **Butane-1,2-diol**
 - · CAS Number:
 - 584-03-2
 - · EC number: 209-527-2
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Manufacture of dental prothesis
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

- Tel.: +49 (0)800 4372522
- · Informing department: E-Mail: msds@kulzer-dental.com
- · 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

Wear protective gloves / eye protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

- · 2.3 Other hazards -
 - Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.



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SECTION 3: Composition/information on ingredients

· 3.1 Substances

· **CAS No. Designation:** 584-03-2 butane-1,2-diol

- · Identification number(s):
 - · EC number: 209-527-2
- · Description: -
- Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
 - After inhalation Supply fresh air; consult doctor in case of symptoms.
 - · After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- · After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
 - · Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide (CO2)

Carbon monoxide (CO)

Formation of toxic gases is possible during heating or in case of fire.

- · 5.3 Advice for firefighters
 - Protective equipment: Wear self-contained breathing apparatus.
 - · Additional information -

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 - Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions: Dilute with much water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

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Send for recovery or disposal in suitable containers.

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special measures required.
 - Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
 - · Storage
 - · Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
 - Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Not required.

- Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
 - Appropriate engineering controls No further data; see section 7.
 - Individual protection measures, such as personal protective equipment
 - General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

- Breathing equipment: Use breathing protection in case of insufficient ventilation.
- Hand protection Check protective gloves prior to each use for their proper condition.
 - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

Nitrile rubber, NBR

· Eye/face protection Tightly sealed safety glasses.

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· Body protection: Light weight protective clothing

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

· Physical state Fluid · Colour: Colourless Smell: Odourless

· Odour threshold: Not determined. · Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

230 °C boiling range

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined. Upper: Not determined.

· Flash point: 93 °C (584-03-2 butane-1,2-diol) 385°C

Auto-ignition temperature:

Decomposition temperature: Not determined.

·SADT

Not determined. pН

. Viscosity:

· Kinematic viscosity Not determined.

· Kinematic viscosity

· dynamic: Not determined.

Solubility

Fully miscible Water:

· Partition coefficient n-octanol/water (log

Not determined. value) · Steam pressure: Not determined.

Vapour pressure:

Density and/or relative density

Density at 20 °C 1.020 a/cm³ Relative density Not determined. Not determined. · Vapour density

· 9.2 Other information

No further relevant information available.

Appearance:

. Form: Fluid

· Important information on protection of health

and environment, and on safety.

Self-inflammability: Not determined.

Explosive properties: Product is not explosive.

Not determined.

· Solvent content:

· VOC EU g/l

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· Change in condition		
· Evaporation rate	Not determined.	
Information with regard to physical hazard		
classes		
· Explosives	Void	
Flammable gases	Void	
· Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
· Flammable liquids	Void	
Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	

Void

SECTION 10: Stability and reactivity

· Desensitised explosives

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
 - · Conditions to be avoided: No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid Heat, flames and sparks.
- 10.5 Incompatible materials: Strong oxidant, acid chloride, acid anhydride, reductant
- · 10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

 Acute toxicity Based on available data, the classification criteria are not met.
 - LD/LC50 values that are relevant for classification:

584-03-2 butane-1,2-diol

Oral LD50 >2,000 mg/kg (rat) (OECD 420)

Inhalative LC50/4 h 370 mg/l (rat)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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- 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.
- · 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.
- · 11.2 Information on other hazards
 - · Endocrine disrupting properties

Butane-1,2-diol

Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
 - · Aquatic toxicity:

584-03-2 butane-1,2-diol

EC50/48h 500 mg/l (daphnia) LC50/96h >10,000 mg/l (fish)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

• 12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - · Recommendation Disposal must be made according to official regulations.
 - · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.
 - · Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

- · 14.1 UN number or ID number
 - · ADR, ADN, IMDG, IATA Void
- · 14.2 UN proper shipping name
 - · ADR, ADN, IMDG, IATA Void

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· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk accordin instruments	g to IMO Not applicable.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

No further relevant information available.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a quarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the ADR: Accord relatir au transport International des marchandises dangereuses par International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Śchweiz (Swiss Ordinance on volatile organic compounds)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent. Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

* Data compared to the previous version altered.