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Safety Data Sheet acc. to OSHA HCS

Printing date 11/28/2024

Reviewed on 11/28/2024

Tel.: +49 (0)800 4372522

1 Identification

- · Product identifier
 - · Trade name: Signum Insulating Gel

- Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Information department:

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com

· Emergency telephone number:

Emergency CONTACT (24-Hour-Number)
ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
 - GHS label elements Void
 - · Hazard pictograms Void
 - · Signal word Void
 - · Hazard statements Void
- Classification system
 - · NFPA ratings for USA (scale 0-4)



Health = 1 Fire = 1Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 0Fire = 1

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - Description: -
 - Dangerous components:

56-81-5 glycerol

75-90%

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· Additional information For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
 - · General information No special measures required.
 - After skin contact Generally the product does not irritate the skin.
 - · After eye contact Rinse opened eye for several minutes under running water.
 - After swallowing

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

- Information for doctor
 - · Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
 - · Protective equipment: No special measures required.
- · Additional information -

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:
- Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).
- Reference to other sections

No dangerous substances are released.

See Section 8 for information on personal protection equipment.

· Protective Action Criteria for Chemicals

· PAC-1:		
		45 mg/m³
		15 mg/m³
112945-52-5	Amorphous silica	18 mg/m³
123-92-2	isopentyl acetate	100 ppm
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· PAC-2:		
56-81-5		180 mg/m³
1344-28-1	aluminium oxide	170 mg/m³
	Amorphous silica	100 mg/m³
123-92-2	isopentyl acetate	500 ppm
· PAC-3:		
56-81-5	glycerol	1,100 mg/m³
1344-28-1	aluminium oxide	990 mg/m³
	Amorphous silica	630 mg/m³
123-92-2	isopentyl acetate	3000* ppm

7 Handling and storage

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

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
 - · Components with limit values that require monitoring at the workplace:

56-81-5 glycerol

PEL Long-term value: 15* 5** mg/m³
mist; *total dust **respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
 - Personal protective equipment
 - · General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

- Breathing equipment: Not required.
- · Protection of hands:

Check protective gloves prior to each use for their proper condition. recommended

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

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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 through 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 protection: Not absolutely necessary.

· Body protection: Light weight protective clothing

9 Physical and chemical propertion	es
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Pasty Colorless Nearly odorless Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	undetermined 100 °C (212 °F)
· Flash point:	199 °C (390.2 °F)
· Flammability (solid, gaseous)	Not applicable.
· Auto igniting:	400 °C (752 °F)
Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	0.9 Vol % Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.200 g/cm³ (10.014 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Fully miscible

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· Partition coefficient (n-octa	anol/water): Not determined.	
· Viscosity: · dynamic: · kinematic:	Not determined. Not determined.	
Solvent content: Water: VOC EU	10.5 % g/l	
· Solids content:	10.5 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: none

11 Toxicological information

- · Information on toxicological effects
 - · Acute toxicity:
 - · LD/LC50 values that are relevant for classification:

56-81-5 glycerol

Oral LD50 ≥10,000 mg/kg (rat)
Dermal LD50 56,750 mg/kg (rabbit)

- · Primary irritant effect:
 - · on the skin: No irritant effect.
 - · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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

12 Ecological information

- · Toxicity
 - · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
 - · Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.
 - Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Void	
Packing group · DOT, ADR, IMDG, IATA	Void	
Environmental hazards: • Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	l of Not applicable.	
Transport/Additional information:	-	

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UN "Model Regulation":

Void

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
 - · SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· Hazardous Air Pollutants

None of the ingredients is listed.

- · Proposition 65
 - Prop 65 Chemicals known to cause cancer

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · Chemical safety assessment
 - · Water hazard class: Generally not hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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

Date of preparation / last revision 11/28/2024

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organis

VOCV: Lenkungsabgabe auf flüchtigen organ compounds)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TI V: Threshold I imit Value

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit