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Safety Data Sheet according to HPR, Schedule 1

Printing date 11/30/2022

Reviewed on 11/30/2022

Tel.: +49 (0)800 4372522

1 Identification

- · Product identifier
 - Trade name: Cuttersil Universal Plus Paste Hardener, Cuttersil Universal Plus Paste Activator
 - · Application of the substance / the mixture Activator for dental impression material
- · 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 identification

· Classification of the substance or mixture

Flammable Liquids - Category 2 H225 Highly flammable liquid and vapour. Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

- · Label elements
 - · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid

Hazard statements

Highly flammable liquid and vapour.

May cause an allergic skin reaction.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take actions to prevent static discharges.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

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Specific treatment (see on this label).

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system
 - NFPA ratings for USA (scale 0-4)



· HMIS-Ratings (Scale 0-4)



· Other hazards -

3 Composition/Information on ingredients

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

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and 25-50% w/w * benzoic acid
Flammable Liquids - Category 2 H225

Flammable Liquids - Category 2, H225 Skin Sensitizer - Category 1B, H317

- * Actual concentration ranges are withheld as a trade secret.
- · Additional information For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
 - · After inhalation Supply fresh air; consult doctor in case of complaints.
 - After skin contact If skin irritation continues, consult a doctor.
 - · After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

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 Allergic reactions
 - Indication of any immediate medical attention and special treatment needed No further relevant information available.

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5 Fire-fighting measures

- Extinguishing media
 - Suitable extinguishing agents

Alcohol resistant foam

CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents Water with full jet.

· Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Carbon monoxide (ČO)

Carbon dioxide (CO2)

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

- Advice for firefighters
 - Protective equipment: No special measures required.
- Additional information -

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
 - Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Please observe the additional instructions in the product's instructions for use.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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:

Protect from heat and direct sunlight.

Store in dry conditions.

Store receptacle in a well ventilated area.

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· 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 item 7.
- · Control parameters
 - Components with limit 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 creation were used as basis.
- · Exposure controls
 - Personal protective equipment
 - General protective and hygienic measures

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

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

Impervious gloves

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

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 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: Tightly sealed goggles.
- · Body protection:

Protective work clothing.

Light weight protective clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties
 - General Information
 - · Appearance:

Form: Color: Odor: Pasty Red Aromatic

· Odor threshold:

Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	undetermined
· Boiling point/Boiling range:	110 °C (230 °F)
· Flash point:	>21,1 °C (>70 °F)
· Flammability (solid, gaseous)	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of
	explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	Not determined.
· Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	Not determined
· Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity:	
· dynamic at 20 °C (68 °F):	100.000 mPas
kinematic:	Not determined.
ther 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
- · Additional information: -

11 Toxicological information

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

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid

Oral LD50 >2.000 mg/kg (not defined)

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112945-52-5 Amorphous silica

Oral | LD50 | >5.000 mg/kg (rat) (OECD 401)

Dermal LD50 >5.000 mg/kg (rabbit)

- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
 - · 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.

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

12 Ecological information

· Toxicity

· Aquatic toxicity:

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid

EC50/72h >100 mg/l (algae)

EC50/48h >100 mg/l (daphnia) (OECD 201)

112945-52-5 Amorphous silica

LC50/96h >10.000 mg/l (fish) (OECD 203)

EC50 / 24h >1.000 mg/l (daphnia)

- · 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.
- · Additional ecological information:
 - · General notes:

Avoid transfer into the environment.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- 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

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

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Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

TIME AT THE TENTH OF THE TENTH	
UN-Number · DOT/TDG, ADR, IMDG, IATA	UN1993
UN proper shipping name · DOT/TDG	Flammable liquids, n.o.s. (Tetraethyl silicate, Me orthosilicate)
· ADR	1993 FLAMMABLE LIQUID, N.O.S. (TETRAETI SILICATE, METHYL ORTHOSILICATE)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (TETRAETH SILICATE, METHYL ORTHOSILICATE)
Transport hazard class(es)	
· DOT/TDG (Transport dangerous goods	s) <i>:</i>
· Class	3 Flammable liquids
· Label	3
ADR	
· Class · Label	3 (F1) Flammable liquids 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids 3
Packing group · DOT/TDG, ADR, IMDG, IATA	III
Environmental hazards: • Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids



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(Contd. of page 7) · Hazard identification number (Kemler code): EMS Number: F-E,S-E Stowage Category · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 Maximum net quantity per outer packaging: 1000 ml · IMDG · Limited quantities (LQ) Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: 30 Maximum net quantity per outer packaging: 1000 ml UN 1993 FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE, METHYL UN "Model Regulation": ORTHOSILICATE), 3, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
 - · Sara
 - SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· 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.

Relevant phrases

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

Date of the latest revision of the safety data sheet 11/30/2022

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation
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)

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative * Data compared to the previous version altered.