

Safety Data Sheet

Duplication Silicone Material

C - Silicone for Laboratory- Catalyst

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

1.1. Product identifier

Duplication Silicone Material: C - Silicone for Laboratory - Catalyst

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

1.3. Details of the supplier of the safety data sheet

Company Name: Shandong Huge Dental Material Corporation
Address: No.68 shanghai Road, Donggang District
City, State, Zip Code: Rizhao City, Shandong Province, 276800, P.R.China
Telephone: 86-633-2277268
email address: marketing@hugedental.com
Website: www.hugedental.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Health hazards

Inhalation: Toxic by inhalation

Eye contact: Irritating to eyes.

Skin contact: Irritating to skin.

Ingestion: Danger of serious damage to health by prolonged exposure if swallowed.

Other Health Effects: No other information noted.

Environmental hazards: Harmful to aquatic organisms.

2.2. Other hazards

Product classified according to EC as:

- flammable
- toxic
- toxic to reproduction, category 2
- mutagen, category 3
- harmful
- irritant
- dangerous for the environment

SECTION 3: Composition/information on ingredients

3.1. Mixtures

Chemical characterization

Mixture of vinyl polysiloxane, fillers, additives.

Hazardous components

Product	CAS	%	classification
Tetramethyl orthosilicate	681-84-5	< 5	R10 - T+, R26 - Xi, R41
Ethyl silicate	78-10-4	< 10	R10 - Xn, R20 - Xi, R36/37
Alkylstannosiloxanes	93925-42-98	< 10	Repr Cat 2, R60-61, Muta Cat 3, R68-T, R48/25-Xn, R22-Xi, R36/38-N R51/53
Ethyl acetate	1141-78-6	< 2	F, R11- Xi, R36-R66-R67

Classification:

DPD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.:

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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Take out the accident victim of the polluted area and remove him to fresh air
Obtain medical attention. Show this sheet to the doctor

After contact with skin

Remove contaminated clothing and shoes. Wash with soap and water at least 15 minutes.

After contact with eyes

In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

After ingestion

Do not induce vomiting. Rinse mouth thoroughly.

Most important symptoms and effects, both acute and delayed

None known.

Indication of any immediate medical attention and special treatment needed

Hazards: No specific recommendations.

Treatment: No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with foam, carbon dioxide or dry powder. Water spray.

Extinguishing media which must not be used for safety reasons

Jet of water.

Advice for firefighters Special Fire Fighting Procedures

Water spray should be used to cool containers.

Special protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Environmental Precautions.

6.2. Environmental precautions

Collect spillage. Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent. Flush area with plenty of water. Incinerate in suitable combustion chamber.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ventilation.

Avoid the contact with the humid air.

7.2. Conditions for safe storage, including any incompatibilities

No special storage precautions noted. Material is stable under normal conditions. Avoid contact with oxidizing agents. Suitable containers: polyethylene. Plastic lined steel drum.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

for organotin compounds (expressed as Sn) TLV (TWA): 0,1mg/m³
TLV (STEL): 0,2mg/m³

Ethyl silicate: TLV (TWA): 10ppm

Ethanol: TLV (TWA): 1000ppm

Methanol: TLV (TWA): 200ppm TLV (STEL): 250ppm

Methyl silicate: TLV (TWA): 1ppm

8.2. Exposure controls

General information:

Ventilation.

Eye/face protection:

Safety Glasses

Skin protection:

Hand protection: Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC).

Other:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory Protection:

In the event of insufficient ventilation, filtering apparatus of breathing protection Should be used. If there is a sufficient ventilation, the use of a breathing protection it's not essential

Hygiene measures:

Provide eyewash station and safety shower.

Environmental Controls:

No data available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical State

Form: Gel

Color: Red

Odor: Mint

Odor Threshold: No data available.

pH: Not applicable

Melting Point: No data available.

Boiling Point: No data available.

Flash Point: 21 °C (Closed cup according to method ASTM D-56.)

Evaporation Rate: No data available.

Flammability (solid, gas): No data available.

Flammability Limit - Upper (%)-: No data available.

Flammability Limit - Lower (%)-: No data available.

Vapor pressure: No data available.

Vapor density (air=1): No data available.

Relative density: 0.98g/cm³ (25 °C) Approximate

Solubility(ies)

Solubility in Water: Practically Insoluble

Solubility (other): Diethylether.: Miscible (in all proportions).

Common organic solvents.: Miscible (in all proportions).

Aromatic hydrocarbons.: Miscible (in all proportions).

Aliphatic hydrocarbons.: Miscible (in all proportions).

Acetone.: Very slightly soluble.

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Ethanol.: Very slightly soluble.
 Partition coefficient (n-octanol/water): No data available.
 Autoignition Temperature:
 Decomposition Temperature:
 Viscosity: No data available.
 Explosive properties: No data available.
 Oxidizing properties: According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

SECTION 10: Stability and reactivity

10.1.Reactivity

Not relevant.

10.2.Chemical stability

Stable

10.3.Possibility of hazardous reactions

It reacts slowly with water releasing flammable vapours (Ethanol and methanol)

10.4.Conditions to avoid

Stable at room temperature.

10.5.Incompatible materials

Strong oxidizing agents.

10.6.Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

SECTION 11: Toxicological information

11.1. Information on likely routes of exposure

Inhalation: No effects expected (assessment based on ingredients).
 Ingestion: No effects expected (assessment based on ingredients).
 Skin contact: No effects expected (assessment based on ingredients).
 Eye contact: No effects expected (assessment based on ingredients).

11.2.Information on toxicological effects

Acute toxicity

Toxic by inhalation
 Not classified as harmful by contact with skin
 DL₅₀ oral (Rat) : > 2000 mg/Kg
 Not classified as harmful if swallowed

Specified substance(s):

Irritation and corrosivity

Product: No effects expected (assessment based on ingredients).
 Repeated dose toxicity:
 Product: No effects expected (assessment based on ingredients).
 Skin corrosion/irritation:
 Product: No effects expected (assessment based on ingredients).
 irritation:
 Product: No effects expected (assessment based on ingredients).
 Respiratory or skin sensitization:
 Product: No effects expected (assessment based on ingredients).

Germ cell mutagenicity

In vitro:
 Product: No effects expected (assessment based on ingredients).
 In vivo:
 Product: No effects expected (assessment based on ingredients).

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Carcinogenicity:
Product: No effects expected (assessment based on ingredients).
Reproductive toxicity:
Product: No effects expected (assessment based on ingredients).
Specific target organ toxicity - single exposure:
Product: No effects expected (assessment based on ingredients).
Specific target organ toxicity - repeated exposure:
Product: No effects expected (assessment based on ingredients).
Aspiration hazard:
Product: No effects expected (assessment based on ingredients).
Other adverse effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity:
Fish:
Product: No effects expected (assessment based on ingredients).
Aquatic invertebrates:
Product: No effects expected (assessment based on ingredients).
Chronic Toxicity:
Fish:
Product: No effects expected (assessment based on ingredients).
Aquatic invertebrates:
Product: No effects expected (assessment based on ingredients).
Toxicity to Aquatic Plants:
Product: No effects expected (assessment based on ingredients).

12.2. Persistence and degradability

Biodegradation:
Product: Not applicable
BOD/COD ratio:
Product: No data available.
Specified substance(s):
Cristobalite: No data available.
White mineral oil (petroleum): No data available.
Kieselguhr, soda ash fluxcalcined: No data available.
Bioaccumulation potential: No data available

Further information

If the material causes hormonal effects or prevents them is unknown to us.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:
Prohibitions: Do not discharge waste into drains or rivers.
Destruction / disposal: Dilute with a flammable solvent and incinerate at a licensed installation.
Contaminated packaging:
Decontamination / cleaning: Allow it to drain thoroughly
Rinse with an appropriate solvent.
Recover the solvent used for rinsing and incinerate at a licensed site
Destruction / disposal: Dispose of at an approved site.
Note: The user's attention is drawn to the possible existence of local regulations regarding disposal.

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SECTION 14: Transport information

Road / rail transport (RID/ADR):

UN number: 1992
Labelling: 3 (6.1)
Packing group: II
ADR tunnel category: (D/E)
Class / division: 3
Subsidiary risk: 6.1
Hazard identification number: 336

Sea transport (IMO / IMDG):

UN number: 1992
Labelling: 3 (6.1)
Packing group: II
ADR tunnel category: (D/E)
Class / division: 3
Subsidiary risk: 6.1
Marine pollutant: Yes
Emergency schedule (EmS): F-E, S-D

Air transport (ICAO / IATA)

UN number: 1992
Labelling: 3 (6.1)
Packing group: II
ADR tunnel category: (D/E)
Class / division: 3
Subsidiary risk: 6.1
Passenger flight: packing instruction: 305 –Maximum net quantity per package: 1 L
Cargo flight : packing instruction: 307–Maximum net quantity per package: 60 L

SECTION 15: Regulatory information

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

National regulatory information

Labelling according to EC-directives:
Mandatory labelling of the dangerous preparations. (Self-classification): APPLICABLE
Indication of the hazardous product: Contains:
Tetramethyl orthosilicate
Organotin compounds

Classifications / symbols: Toxic (T)

Phrases R: R 10 : Flammable
R 23 : Toxic by inhalation
R 36/38 : Irritating to eyes and skin.
R 48/22 : Harmful: danger of serious damage to health by prolonged exposure if swallowed
R 52/53 : Harmful to aquatic organisms, may cause long-term adverse
Effects in the aquatic environment
R 60 : May impair fertility
R 68 : May cause harm to the unborn child
Phrases S: S 45 : In case of accident or if you feel unwell, seek medical advice immediately
(show the label where possible)
S 53 : Avoid exposure – obtain special instructions before use.

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SECTION 16: Other information

Recommended uses:

The information is based on our level of knowledge at the moment at the date of printing and is not intended to be a warranty for the product.