

Safety Data Sheet
according to 1907/2006/EG, Article 31

Date of issue: 19.12.2024
Printing date: 19.12.2024

Version: 2

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

1.1 Product identifier

Trade name:

K-CATALYST ULTIMATE LAB PUTTY CATALYST

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

Identified uses:

Dental product.

1.3 Details of the supplier of the safety information sheet

Manufacturer/supplier:

S&C Polymer Silicon- und Composite Spezialitäten GmbH
Robert-Bosch-Strasse 2
25335 Elmshorn, Germany
info@sc-polymer.com

Australian Distributor:

Ultimate Dental Supply
660A South Rd Moorabbin Vic 3189
03 9532 1799
info@ultimatedental.com.au

1.4 Emergency telephone number

+49 4121 483-0

Australian Emergency No.

13 11 26 - Poisons Hotline 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Flammable liquid, Category 3.

Acute toxicity, category 4.

Eye irritation, Category 2.

Specific target organ toxicity – single exposure (STOT SE), Category 3.

Specific target organ toxicity – repeated exposure (STOT RE), Category 1.

Chronic aquatic toxicity, Category 4.

Reproductive toxicity, Category 2.

2.2 Label elements

CLP Regulation (EC) No. 1272/2008

Signal word:

Danger.

Hazard pictograms:



GHS02



GHS07



GHS08

Hazard statements:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H372 Causes damage to organs (thymus) through prolonged or repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

H361d Suspected of damaging the unborn child.

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Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: not applicable.
vPvB: not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical characterization (description):

Organotin compound, silicic-acid ester.

Hazardous components:

CAS-No. 78-10-4	Tetraethyl silicate	GHS02, GHS07, H226, H332, H319, H335
CAS-No. 93925-43-0	Silicic acid (H ₄ SiO ₄), tetraethyl ester reaction products with bis(acetyloxy) dioctylstannane	GHS08, H373, H413
CAS-No. 68299-15-0	Bis(neodecanoyloxy)dioctylstannane	GHS08, H373, H413

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Seek medical advice, if symptoms occur, which can be caused by the product.

after skin contact:

Wipe off excess material with cloth or paper. Wash with plenty of water. Remove contaminated clothing. Consult a doctor.

after inhalation:

Fresh air. Seek medical advice if feeling unwell.

after eye contact:

Rinse with plenty of water with the eyelid held wide open. Seek medical advice.

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after swallowing:

Make victim drink plenty of water. Do not induce vomiting. Consult a doctor.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media:

CO₂, extinguishing powder, water spray.

5.2 Special hazards arising from the substance or mixture

Development of hazardous combustion gases and vapours possible in the event of fire.

Protective equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-containing breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Wear personal protection equipment. Avoid contact with eyes and skin. Do not inhale vapors/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

6.2 Environmental precautions

Do not allow to enter drains/surface water/ ground-water.

6.3 Methods and material for containment and cleaning up

Pick up mechanically. Clean up affected area.

6.4 Reference to other sections

See Section 7: Handling and storage

See Section 8: Exposure controls/personal protection

See Section 13: Disposal considerations

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling:

This product should only be supplied or handled to dentists or dental technicians or upon their instructions.

Information for safe handling:

Observe normal care for working with chemicals. Ensure adequate ventilation. Do not inhale substance/mixture. Keep container tightly closed.

Information about fire and explosion protection:

Take precautionary measures against electrostatic charging. Keep away from open flames, heat and sparks.

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7.2 Conditions for safe storage, including any incompatibilities

Storage:

Store at a dry place. Store tightly closed. Storage temperature < 25°C.

Requirements at storerooms and containers:

Store only in the original containers.

Information about storage in one common storage facility:

Store away from food stuffs.

Further information on storage conditions:

None.

Storage class (TRGS 510):

3

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information on the design of technical systems:

-

Components with limits of values to be supervised at the workplace:

CAS-No.	name	art	value	unit
78-10-4	Tetraethyl silicate	TRGS 900	12.0	mg/m ³
		Or	1.4	ml/m ³

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

General protective and hygienic measures:

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. When using do not eat, drink, smoke. Wash hands at the end of work and before eating.

Respiratory protection:

Required when vapours/aerosols are generated.

Hand protection:

Protective gloves (butyl rubber or nitrile rubber). At any sign of decay or chemical permeability remove gloves immediately and replace. Wash hands with soap and water.

Eye protection:

Safety glasses.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Form: paste
Color: red
Odor: nearly odorless

Change in condition:

Melting point/melting range: not applicable
Boiling point/boiling range: no information available
Flash point: 34 °C
Ignition temperature: 215 °C
Danger of explosion: lower limit of explosion: 1.3 Vol%
upper limit of explosion: 23 Vol%
Density: 1.02 (20°C) g/cm³
pH: not applicable
Solubility in/miscibility with:
Water: practically insoluble
Content of solvents:
Organic solvents: none

SECTION 10: Stability and reactivity

10.1 Reactivity

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.2 Chemical stability

The product is stable by proper use and storage.

10.4 Conditions to avoid

Moisture, heat, open flames, and other sources of ignition. Reacts with water, basic substances and acids. The reaction takes place with the formation of alcohols.

10.6 Hazardous decomposition products

If stored and handled properly: none known. Alcohols under the effect of humidity, water and protic agents.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (Tetraethyl silicate):

LD50 (oral, rat): 6270 mg/kg.
LD50 (dermal, rabbit): 5860 mg/kg.

Primary irritation:

Skin: non irritant.
Eye: not investigated.
Sensitization: not investigated.

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Inhalation: not investigated.

Additional toxicological information:

During the long period of use - even as catalyst paste for hardening polysiloxane impression materials of condensation curing type according instructions for use – no health diseases are reported. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

General information:

Avoid transfer into environment.

Classification hazardous to water:

Water hazard class 3 (self-classification): highly hazardous to water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

Uncleaned packaging:

Recommendation:

Completely discharge containers. Disposal must be made according to official regulations. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information

Land transport ADR/RID and GGVSE (Germany):

UN 1292 Tetraethylsilicat, Lösung, 3, III.

Sea transport IMDG Code:

UN 1292 Tetraethyl silicate solution, 3, III.

Air transport ICAO-TI and IATA-DGR:

UN 1292 Tetraethyl silicate solution, 3, III.

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

SECTION 15: Regulatory information

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

National regulations:

Water hazard class 3 (self-classification): highly hazardous to water.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

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SECTION 16: Other information

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. Users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.