

## 1. Identification of substance

### Product details:

**Trade name:** hobby time Vernetzer 20 ml

**Application of the substance:** Hardening agent / Curing agent

### Manufacture / Supplier:

Glorex GmbH

Grossmattstrasse 17

D - 79618 Rheinfelden

Tel.: +49 (0) 7623 7233 0

Fax: +49 (0) 7623 2606

### Emergency information:

Giftnotrufzentrale Freiburg..... 0761 – 1 92 40

Beratungsstelle für Vergiftungserscheinungen an der Uniklinik, KAVH

Pulsstr. 3-7, 14059 Berlin.....030 – 1 92 40

## 2. Composition / Data on components

### Chemical characterization

Description: preparation

### Dangerous components:

78-10-4 tetraethyl orthosilicate 70%

77-58-7 dibutyltin dilaurate 30%

Xn; R10-20-36/37

EINECS: 201-083-8

Xn; R20/21/22-36/38-52/53

EINECS: 201-039-8

### Additional information:

For the wording of the listed risk phrases refer to section 16.

## 3. Hazard identification

**Hazard designation:** Xn Harmful

Information pertaining to particular dangers for man and environment

R 10 Flammable

R 20/21 Harmful by inhalation and in contact with skin

R 36/37/38 Irritation to eyes, respiratory system and skin

R 52/53 Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment.

## 4. First aid measures

**After inhalation:** Supply fresh air, consult doctor in case of complaints.

In case of unconsciousness bring patient in stable side position for transport.

**After skin contact:** Treat affected skin with cotton wool or cellulose.

Then wash and rinse thoroughly with water and a mild cleaning agent.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing:** Seek immediate medical advise.

## 5. Fire fighting measures

### Suitable extinguishing agents:

Water spray, Alcohol-resistant foam, Fire-extinguishing powder, Carbon dioxide.

### Special hazards caused by the material, its products of combustion or resulting gases:

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

**Protective equipment:** Wear self-contained respiratory protective device.

## 6. Accidental release measures

**Person-related precautions:** Ensure adequate ventilation

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

**Measures for environmental protection:** Do not allow to enter sewers/surface or ground water.

**Measures for cleaning/collecting:** Pick up mechanically.

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## 7. Handling and storage

### Handling:

#### Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

#### Information about protection against explosions and fires:

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

### Storage:

#### Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Information about storage in one common storage facility: Store away from foodstuffs.

#### Further information about storage conditions:

Protect from frost. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.

Store in dry conditions.

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## 8. Exposure controls and personal protection

### Additional information about design of technical systems:

No further data; see item 7.

### Components with limit values that require monitoring at the workplace:

78-10-4 Tetraethyl orthosilicate

OES: Short-term value: 260 mg/m<sup>3</sup>, 30 ppm

Long-term value: 87 mg/m<sup>3</sup>, 10 ppm

64-17-5 Ethanol

OES: Long-term value: 1920 mg/m<sup>3</sup>, 10 ppm

64-19-7 acetic acid

OES: Short-term value: 37 mg/m<sup>3</sup>, 15 ppm

Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

### Personal protective equipment:

#### General protective and hygienic measures:

The usual precautionary measures should be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of the work.

Immediately remove all soiled and contaminated clothing.

**Breathing equipment:** Not required with good ventilation and/or adequate extractor facilities. In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device: Filter AX (DIN EN 371 (DIN EN 141)).

**Protection of hands:** Protective gloves made of the following material: Nitrile rubber, NBR (0,8mm). The named material refers only to the chemical resistance to the product.

Another important factor in the selection of the right gloves is their resistance to mechanical wear and tear. This, however, can differ completely from company to company which is why we recommend that users contact glove manufactures in order to establish compliance with their own individual operating needs. Attention is also be paid to an adequate penetration time (>240min / EN374) of the glove material which complies with the strength and duration of exposure to the product.

**Eye protection:** Safety glasses

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## 9. Physical and chemical properties

Form:	fluid
Colour:	clear
Odour:	weak, characteristic
<b>Change in condition</b> Boiling point	>60°C
Flash point	28°C
Ignition temperature	240°C
Explosion limits, Lower	not determined
Upper	not determined
Vapour pressure at 20°C	46 hPa
Specific gravity at 20°C	1 g/cm <sup>3</sup>
Solubility in / Miscibility with	
Water	Insoluble
Viscosity, Dynamic at 20°C	20 mPa s Brookfield

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## 10. Stability and reactivity

### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### Dangerous reactions:

Reacts with water and acids

Reacts with alkali (lyes)

### Dangerous products of decomposition:

Contact with water or air humidity liberates:

Ethanol

Ethanoic acid

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## 11. Toxicological information

### Acute toxicity:

### Primary irritant effect:

**On the skin:** Irritant to skin and mucous membranes.

**On the eye:** Irritating effect:

**Additional toxicological information:** Harmful

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## 12. Ecological information

### Ecotoxicological effects:

### Aquatic toxicity:

Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment.

**General notes:** Do not allow product to reach ground water, water course or sewage system.

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## 13. Disposal considerations

### Product:

**Recommendation:** Disposal in accordance with official regulations

### EWC-Code(s):

No waste code number pursuant to the European Waste Catalogue can be stipulated for this product since only the intended application by the consumer allows an assignment to be made. The waste code number must be stipulated by agreement with the producer (or the responsible public authority).

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

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## 14. Transport information

### Land transport ADR/RID (cross-border)

**ADR/RID class:**

3 Flammable liquids.

Danger code (Kemler): 36

UN-Number: 1992

Packaging group: III

Destination of goods: 1992 FLAMMABLE LIQUID, TOXIC, N.O.S.  
(dibutyltin di(acetate), TETRAETHYL SILICATE)

**Maritime transport IMDG:**

IMDG class: 3

UN Number: 1992

Packaging group: III

EMS Number: F-E,S-D

Marine pollutant: Yes

Propper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.  
(dibutyltin di(acetate), TETRAETHYL SILICATE)

**Air transport ICAO-TI and IATA-DGR:**

ICAO/IATA class: 3

UN/ID Number: 1992

Packaging group: III

Propper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S.  
(dibutyltin di(acetate), TETRAETHYL SILICATE)

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**15. Regulations****Markings according to EC guidelines:**

**Code letter and hazard designation of product:** Xn harmful

**Hazard-determining components of labelling:**

tetraethyl orthosilicate dibutyltin di(acetate)

**Risk phrases:**

- |          |                                                                                              |
|----------|----------------------------------------------------------------------------------------------|
| 10       | Flammable                                                                                    |
| 20/21    | Harmful by inhalation and in contact with skin.                                              |
| 36/37/38 | Irritation to eyes, respiratory system and skin.                                             |
| 52/53    | Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment. |

**Safety phrases:**

- |    |                                                                                               |
|----|-----------------------------------------------------------------------------------------------|
| 24 | Avoid contact with skin                                                                       |
| 25 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advise. |
| 61 | Avoid release to the environment. Refer to special instructions/safety data sheets.           |
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**16. Other informations**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

There is no liability, neither implicitly nor expressly.

All mentioned regulations were listed, to help the user to accomplish their duties while working with dangerous products. This list is not to be seen as complete.

The user is in any case responsible to verify, whether there exists no other regulations beside the above mentioned concerning storage and usage, he is responsible for alone.

**For industrial use only.****Relevant R-phrases:**

- |    |                        |
|----|------------------------|
| 10 | Flammable.             |
| 20 | Harmful by inhalation. |

20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
21	Harmful if swallowed.
24	Toxic in contact with skin.
36/37	Irritation to eyes and respiratory system.
36/38	Irritation to eyes and skin.
48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50/53	Very toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment.
51/53	Toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment.

**Department issuing MSDS:** Qualitätssicherung Zitzmann Zentrale

Date of Revision: 29/06/2006

Point updated: none