

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 Article 31

Product identification: SRT8 glass block adhesive

Revision date: 08.06.2020

Version: 1

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

1.1 Product identifier: SRT8 glass block adhesive

1.2 Relevant identified uses of the substance or mixture: adhesive

1.3 Details of the supplier of the Safety Data Sheet:

Fuchs Design GmbH
Kempener Landstraße 1
47647 Kerken
Germany
Tel: +49 (0)2833 5760 313
E-Mail: qm@fuchsdesign.de

1.4 Emergency telephone number:

Phone +49 89 19240, Klinikum rechts der Isar – Technische Universität München, www.mri.tum.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

The product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) Nr. 1272/2008 (CLP) void

Hazard pictograms: void

Signal words: void

Hazard statements: void

Additional information:

EUH208 Contains N-[3-(trimethoxysilyl)propyl]ethylenediamine, Trimethoxyvinylsilane. May produce an allergic reaction. EUH210 Safety data sheet available on request. EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bio accumulative) or is not included under XIII of the regulation (EC) 1907/2006 (<0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bio accumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (<0,1 %).

SECTION 3: Composition/information on ingredients



3.2 Mixtures

Description: Adhesive based on hybrid polymer

Dangerous components:

CAS: 2768-02-7 trimethoxyvinylsilane

0,5 - 5%

EINECS: 220-449-8  Flam. Liq. 3, H226;  Acute Tox. 4, H332

Reg. no.: 01-2119513215-52-xxxx

Additional information:

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Following skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

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

Following swallowing: Do not induce vomiting; call for medical help immediately. Show container or label.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

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

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for fire-fighters

Special protective equipment

Mount respiratory protective device.

Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Dispose contaminated material as waste according to Section 13.

6.4 Reference to other sections

Personal protection equipment: see Section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

See Section 8: Personal protective equipment

7.2 Conditions for safe storage, including any incompatibilities

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:

Store in cool, dry conditions in well-sealed receptacles. Protect from heat and direct sunlight.

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SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see Section 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS No. Designation of material % Type Value Unit

Additional Occupational Exposure Limit Values for possible hazards during processing:

67-56-1 methanol

WEL Short-term value: 333 mg/m³, 250 ppm

Long-term value: 266 mg/m³, 200 ppm

Other information: Sk (WEL, EU)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

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

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection:

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e., type ABEK according to standard EN 14387) is used.

Protection of hands: Protective gloves.

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.

Recommended glove types: nitrile rubber

Recommended thickness of the material: ≥ 0.2 mm

Penetration time of glove material: Breakthrough time: > 60 min

Eye protection: Safety glasses

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

- Form:

Pasty.

- Colour:

According to product specification

Odour:

Characteristic

Odour threshold:

Not determined.

pH-value:

Not determined.

Change in condition

- Melting point/freezing point:

Undetermined.

- Initial boiling point and boiling range:

Undetermined.

Flash point:

Not applicable.

Auto-ignition temperature:

Product is not self-igniting.

Explosive properties:

Product does not present an explosion hazard.

Explosion limits:

Lower:

Not applicable.

Upper:

Not applicable.

Oxidising properties:

Not determined.

Vapour pressure:

Not determined.

Density:

1,55 g/cm³

Vapour density:

Not applicable.

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Evaporation rate:

Solubility in / Miscibility with Water:

Partition coefficient: n-octanol/water:

Viscosity:

Not determined.

Not miscible or difficult to mix.

Not determined.

Not determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Avoid strong heating.

10.3 Possibility of hazardous reactions

No dangerous reactions known

10.6 Hazardous decomposition products

See item 5.2.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50 values relevant for classification:

2768-02-7 Trimethoxyvinylsilane

Oral LD50 7.100 mg/kg (rat)

Dermal LD50 3.200 mg/kg (rab)

Inhalative LC50/4 h 16,8 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Other information (about experimental toxicology): Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs.

Methanol is highly flammable. Inhalation of aerosol spray may damage health.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

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

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Trimethoxyvinylsilane, CAS: 2768-02-7

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LC50, (96h), Oncorhynchus mykiss: 191 mg/l.
EC50, (48h), Daphnia magna: 169 mg/l.
IC50, (72h), Selenastrum capricornutum: 210 g mg/l.
NOEC, (72h), Selenastrum capricornutum: 25 mg/l

12.2 Persistence and degradability

Other information: Product is not biodegradable.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Observe local by-laws.

Already cured material can be disposed of with the domestic or commercial waste. Unconsumed material (fluid, paste-like) is to dispose of as hazardous waste.

Uncleaned packaging:

Recommendation:

Empty contaminated packings thoroughly. They may be recycled after thorough and proper cleaning.

Packings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1	UN number	ADR, ADN, IMDG, IATA	Void.
14.2	UN proper shipping name	ADR, ADN, IMDG, IATA	Void.
14.3	Transport hazard class(es)	ADR, ADN, IMDG, IATA Class	Void.
14.4	Packing group	ADR, IMDG, IATA	Void.
14.5	Environmental hazards	Marine pollutant:	No.
14.6	Special precautions for user		Not applicable
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	

Transport/other information:
UN "Model Regulation":

Not dangerous according to above regulations.
Void.

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SECTION 15: Regulatory information

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

National regulations

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Details of international registration status:

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Relevant phrases

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

EC50: Effective concentration, 50 percent

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IC50: Inhibitory concentration, 50 percent

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

PBT: Persistent, Bio accumulative and Toxic

vPvB: very Persistent and very Bio accumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

The statements made here should describe the product with regard to the necessary safety precautions. They are based on our present knowledge, are not meant to guarantee definite characteristics and shall not establish a legally valid contractual relationship.

No responsibility.