1. Description of the Material / Preparation and Company Identification

Details about the product

::: Trade name: InnoElast® Type 2

::: Application of the product or mixture Sealant, Adhesive

::: Supplier B.T. innovation GmbH

Sudenburger Wuhne 60

D-39116 Magdeburg, Germany

Tel.: +49 (0) 391-7352-0 Fax: +49 (0) 391-7352-54

::: Information can be obtained from Technical division

info@bt-innovation.de

::: Emergency telephone number Telephone: +49 (0) 391-7352-0

2. Hazard(s) Identification

2.1 Classification of the substance or mixture

::: Classification according to regulation (EC) Not required

No.1272/2008

::: Classification according to directive 67/548/EEC or

regulation 1999/45/EC

Not required

2.2 Labelling elements

::: Labelling according to regulation (EC) No.1272/2008

Labelling of specific mixtures EUH208

Contains reaction products of 12-Hydroxystearic acid with Eth-

ylen-1,2-diamine. May produce an allergic reaction.

Signal word None

2.3 Other hazards None

3. Composition / information on ingredients

::: Chemical Characterisation

Hazardous ingredients:		
CAS: 2768-02-7	Trimethoxy vinyl silane	< 2.5%
Reg. No. 01-2119513215-52	Flam. Liq. 3; H226, Eye Dam. 1; H318, Acute Tox. 4; H332	
EC-No.: 220-449-8		
CAS: 52829-07-9	Bis (2, 2, 6, 6 - Tetramethyl - 4 - piperidyl) sebacate	< 1%
Reg. No. 01-2119537297-32	Eye Irrit. 2; H319, Aquatic Chronic 2; H411	
EC-No.: 258-207-9		

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::: Further ingredients

Ingredients listed as candidates among the substances of very high concern (SVHC):		
CAS: 100545-48-0	Reaction products of 12-Hydroxystearic acid with Ethylen-1,2-di-	0.1- <1%
Reg. No. 01-2119979085-27	amine	
EC-No.: 309-629-8	Skin Sens. 1; H317, Aquatic Chronic 3; H412	

::: Additional advices

For the full text of the hazard notes mentioned in this section, see section 16.

4. First Aid Measures

4.1 Description of first aid measures	
::: General advice	Consult a doctor. Show this safety data sheet or the label to the doctor in attendance.
::: After breathing in	Supply with fresh air, consult doctor in case of symptoms
::: After skin contact	Wash off with water and soap. In case of skin irritation / allergic reactions consult a doctor.
::: After eye contact	Rinse opened eye immediately under running water for 10 to 15 minutes, then consult doctor for treatment.
::: After swallowing	Immediately consult a doctor. After swallowing rinse the mouth with plenty of water (never with an unconscious person). Due to hydrolysis low amounts of toxic Methanol are produced.
::: Information for the doctor	
4.2 Most important symptoms and effects, both acute and delayed	Not known
4.3 Identification of any immediate medical attention and special treatment needed	Small amounts of methanol are released during curing.

E Fire Fighting Measures

::: Protective equipment

5. Fire Fighting Measures	
::: Suitable extinguishing agents	Carbondioxide, extinguishing powder, water spray. Fight large fires with water spray or alcohol resistant foam.
::: Unsuitable extinguishing agents	Water with a full water jet
::: Advice for firefighters	Prevent any penetration into sewers, open waters, and ground water.

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Wear appropriate breathing apparatus.

6. Accidental Release Measures

::: Person-related safety precautions Wear personal protective equipment.

Avoid contact with eyes and skin.

::: Environmental precautions Prevent any penetration into sewers, open waters, and ground

water.

::: Procedure for cleaning/adsorption

Take up mechanically (e.g. sand, sawdust, universal binder). Dis-

pose material according to the local regulations.

Hardens in contact with water.

7. Handling and Storage

7.1 Precautions for safe handling Use required protective equipment. Avoid contact with skin,

eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

::: Requirements to storage areas and containers
No special measures required

::: Information about common storage Storage class (TRGS 510): 10

::: Further information about storage conditions Avoid moisture.

Keep containers tightly closed and in a dry and well ventilated

area

7.3 Specific end use(s) Sealant based on silane-modifed polymers.

Pay attention to the technical data sheet

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8. Exposure Controls and Personal Protection

8.1 Control parameters

::: Components with workplace control parameters

Methanol (as reaction product) CAS-No.: 67-56-1

Limit value type (country of origin) TRGS 900 (D)

Limit value 200 ppm / 270 mg/m³

Peak limit 4(II)

Comment H. Y

Version 01.02.2006

Limit value type (country of origin) TWA (EC)

Limit value 200 ppm / 260 mg/m³

Comment H

::: Biological limit values

Methanol (as reaction product) CAS-No.: 67-56-1

Limit value type (country of origin): TRGS 903 (D) Methanol / urine (U) / exposition end respec-

tively shift end; for long term exposure: after several earlier shifts

Limit values 30 mg/l

Version 01.09.2001

8.2 Exposure controls

Personal protective equipment

::: Eye protection Tightly fitting protective glasses (DIN EN 166)

::: Hand protection String, tight, consistent protective gloves made from an appro-

priate material. Select the glove material on consideration of the penetration time, rates of diffusion and degradation. Check prior

the application.

::: Breathing protection Not necessary in well ventilated rooms.

::: General protection and hygienic measures Keep away from food and animal feeds. Remove soiled, soaked

clothing at once. Wash hands before taking a break and at the

end of working hours. Avoid contact with eyes and skin.

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9. Physical and Chemical Properties

Form paste-like

Colour black

Odour weak, characteristic

Self-ignitability The product is not self-igniting.

Flash point > 61°C

Danger of explosion The product is not explosive.

Dynamic viscosity ca. 9000 to 15000 Pas

Density at 20° C 1.5 g/cm³

Solubility in / Miscibility with water reacts with water

Boiling point / Boiling range Not applicable

Melting point / Melting range Not applicable

10. Stability and Reactivity

Reactivity The product cures / hardens with moisture.

Chemical stability: The product is stable at standard conditions.

Possibility of dangerous reactions Not known

Thermal decomposition: No decomposition if used according to specification.

Conditions to be avoided None known

Materials to be avoided None known

Dangerous decomposition products No dangerous decomposition products known at appropriate

storage and handling.

11. Toxicological Information

::: Information on toxicological effects

Irritation and corrosion Primary irritation of skin and eyes

Practical experiences Irritation of eyes and skin is possible.

Sensitization The product contains sensitizing components.

It may cause allergic reactions.

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::: Toxicological data

	LD50 oral	LD50 dermal	LD50 inhalation
Trimethoxy vinyl silane	7120 mg/kg (rat)	3360 µL/kg (rabbit)	-
Bis (2, 2, 6, 6 - Tetramethyl - 4 - piperidyl) sebacate	>2000 mg/kg (rat)	3170 mg/kg (rat)	500 mg/kg (rat, 4h)
Reaction products of 12-Hydroxystearic acid with Ethylen-1,2-diamine	>2000 mg/kg (rat)	-	5,05 mg/kg (rat)

12. Ecological Information

::: Toxicity

Aquatic toxicity The mixture has been evaluated according to the conventional

method for environmental hazards. If classified as hazardous to the environment, please compare with details in chapter 2.

Persistence and degradability No further relevant information available

Bioaccumulative potential No further relevant information available

Mobility in soil No further relevant information available

Result of PBT-and vPvB-assessment Contains no SVHC-substance in a concentration of >=0.1% with

PBT/ vPvB-properties

Other adverse effects No further relevant information available.

::: Additional ecological information The product should not be released uncontrolled into the envi-

ronment.

13. Disposal Considerations

::: Recommendation: Dispose only hardened product scrap with the household waste.

Dispose not hardened product residues as hazardous waste.

::: European waste catalogue 08 04 10 / Waste adhesives and sealants

::: Packaging Packagings have to be discharged from remaining product.

Empty packagings with hardened product parts can be forwarded for recycling. Packagings with not hardened product

parts have to be discharged as the product

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14. Transport Information

UN-Number No dangerous goods according to transport regulations

UN-proper shipping name

No dangerous goods

Transport hazard class(es) No dangerous goods according to transport regulations

Packing group No dangerous goods according to transport regulations

Special precautions for user Not applicable

15. Regulatory Information

::: Safety, health and environmental regulations / legislation specific for the mixture

National regulations Act according to the national regulations / law!

Advices on employment restrictions
Consider possible employment restrictions according to mater-

nity protection and youth labour protection law.

Technical instructions on air quality (TI-Air): Percentage by weight (Point 5.2.5. I): < 1 %

Water hazard class Class: 1 (slightly hazardous to water)

Classification according to VwVwS

::: Additional regulations, restrictions and prohibition edicts

Ordinance on Industrial Safety and Health

(German Betriebssicherheitsverordnung, BetrSichV):

No flammable liquid according to BetrSichV

Material safety assessment No information available.

16. Other information

The data within this safety data sheet are based on our present knowledge. They shall not constitute a guarantee for any specific product feature nor justify warranty claims and shall not establish a legally valid contractual relationship. Any previous data sheet issues have now become invalid.

Relevant EUH phrases according to the CLP-Regulation

H226	Flammable liquid and vapour

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H332 Harmful if inhaled

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects.

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Information can be obtained from:

Technical division (Tel.: +49(0)391-7352-0)

Abbreviation and acronyms

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

BCF: Bioconcentration factors

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

CMR: Carcinogenic, mutagenic, reprotoxic

DNEL: Derived no-effect level

IMDG: International Maritime Code for Dangerous Goods

EAK: European Waste Catalogue / Europäische Abfallkatalog

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOEC: No observed effect concentration

NOEL: No Observed Effect Concentration

OEL: Occupational exposure limit

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted no effect concentration

STOT: Specific target organ toxicity

SVHC: Substances of Very High Concern

VOC: Volatile Organic Compounds (USA, EU)

vPvB: very Persistent and very Bioaccumulative

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