

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

- **1.1 Product identifier**
- **Creation date version 1** 15.07.2015
- **Trade name** NEUKASIL Crosslinker A 155
- **Utilization of the substance of the formulation:** Crosslinking agents for the production of elastomers
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application for the substance / the preparation** Crosslinking agents for the production of elastomers
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Suter Kunststoffe AG  
Aefligenstrasse 3  
CH-3312 Fraubrunnen  
Tel: +41 (0)31 763 60 60  
Fax: +41 (0)31 763 60 61  
e-mail: info@swiss-composite.ch
- **Further information obtainable from:** Sales Team
- **1.4 Emergency telephone number:**  
Tox Info Schweiz : 145

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
EUH210 Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**

· **PBT:**

556-67-2 octamethylcyclotetrasiloxane

· **vPvB:**

556-67-2 octamethylcyclotetrasiloxane

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Polydimethylsiloxan with reactive groups

· **Dangerous components:**

CAS: 556-67-2	octamethylcyclotetrasiloxane	≥0.25-≤1%
EINECS: 209-136-7	⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361f; Aquatic Chronic 4, H413	
Reg.nr.: 01-2119529238-36-0001	PBT; vPvB	

· **SVHC**

556-67-2 octamethylcyclotetrasiloxane

- **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**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.  
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Alcohol-resistant foam, carbon dioxide, sand. Under the blanket of foam can hydrogen gas are included, so remove for cleaning and recording sources of ignition.
- **For safety reasons unsuitable extinguishing agents:**  
Water  
Extinguishing powder  
Halone
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.  
Eliminate ignition sources. Material intended for disposal must be kept away from incompatible materials in accordance with point 10. Do not mix contaminated material with clean material consider information in section 07 ..

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**SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

Take care by opening

Do not seal receptacles gas-tight.

provide for best ventilation in the work space

Does not in use Keep container closed. Keep away from incompatible materials in accordance with point 10.

If possible inerting equipment and containers filled with nitrogen to reduce the oxygen content

**· Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

Product can give off hydrogen. Within partially empty containers formation of explosive mixtures possible.

Keep away from fire or smoke. Keep away from open flames, heat sources and sparks. Measures against static discharges.

**· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:**

Prevent any seepage into the ground.

Keep container tightly closed and dry and storage in a good ventilated room.

Storage temperature: 20 - 25 °C.

**· Information about storage in one common storage facility:**

Store away from flammable substances.

Store away from foodstuffs.

Does not store with, basic substances (eg alkalis, ammonia, amines), oxidizing agents, strong acids.

**· Further information about storage conditions:**

Protect from frost.

Store receptacle in a well ventilated area.

Store in dry conditions.

Protect from heat and direct sunlight.

**· Storage class: 10****· 7.3 Denomination of Origin Made in Germany****· Processing information Homogenize content before use****· General remark For processing instructions see data sheet****SECTION 8: Exposure controls/personal protection****· 8.1 Control parameters****· Additional information about design of technical facilities:** No further data; see item 7.**· Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**· DNELs****556-67-2 octamethylcyclotetrasiloxane**

Oral	DNEL Acute - systemic effects	3.7 mg/kg bw/day (General population)
	DNEL Long-term - systemic effects	3.7 mg/kg bw/day (General population)
Inhalative	DNEL Acute - systemic effects	13 mg/m <sup>3</sup> (General population)
		73 mg/m <sup>3</sup> (workers)
	DNEL Long-term - systemic effects	13 mg/m <sup>3</sup> (General population)
		73 mg/m <sup>3</sup> (workers)
	DNEL Acute - local effects	13 mg/m <sup>3</sup> (General population)
		73 mg/m <sup>3</sup> (workers)

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DNEL Long-term - local effects	13 mg/m <sup>3</sup> (General population) 73 mg/m <sup>3</sup> (workers)
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## · PNECs

## 556-67-2 octamethylcyclotetrasiloxane

PNEC STP	10 mg/L (sewage plant)
PNEC aqua	0.44 ug/L (freshwater) 0.044 ug/L (marine water)
PNEC sediment	0.59 mg/kg (freshwater- sediment) 0.059 mg/kg (seawater - sediment)
PNEC soil	0.15 mg/kg (soil ( Boden))
PNEC Secondary poisoning	41 mg/kg (food)

· **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.

· **Respiratory protection:** Not necessary if room is well-ventilated.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber, BR

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

## · 9.1 Information on basic physical and chemical properties

· **General Information**· **Appearance:**

Form: Fluid

Colour: Colourless

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

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· <b>Change in condition</b> Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
· <b>Flash point:</b>	> 250 °C
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Ignition temperature:</b>	> 400 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b> Lower:	Not determined.
Upper:	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	1.1 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> Dynamic at 20 °C:	3000 mPas
Kinematic:	Not determined.
· <b>Solvent content:</b> Organic solvents:	0.0 %
VOC (EC)	0.0 g/l
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**  
Danger of forming explosive hydrogen-air mixture when stored in enclosed spaces.  
Reacts with metals forming hydrogen.  
Reacts with: acids, alkaline substances (eg alkalis, ammonia, amines), alcohols, water, humidity, Oxidationsmittel, catalyst. The reaction causes the formation of hydrogen.
- **10.4 Conditions to avoid**  
Moisture. Heat, open flames and other ignition sources. With contaminated pipes and tanks or corroded or rusty containers may lead to increased formation of hydrogen. Detail in section 7.
- **10.5 Incompatible materials:**  
metal and metaloxide  
water , alcohol , amine , base and acid
- **10.6 Hazardous decomposition products:**  
Hydrogen  
Measurements have shown that at temperatures from about 150 ° C by formation of small amount Formaldehyde is split off.

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**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:**

**556-67-2 octamethylcyclotetrasiloxane**

Oral	LD50	4,800 mg/kg (rat) (OECD 401 Acute Oral Toxicity)
Dermal	LD50	2,400 mg/kg (rat)
Inhalative	LC50/4 h	36 mg/l (rat) (OECD 403 Acute Inhalation Toxicity)

- **Primary irritant effect:**
- **Skin corrosion/irritation** no data available
- **Serious eye damage/irritation** no data available
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **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**· **Aquatic toxicity:****556-67-2 octamethylcyclotetrasiloxane**

LC50 (96 h)	>0.022 mg/l (Oncorhynchus mykiss)
EC50 (48 h)	0.015 mg/l (D)

- **12.2 Persistence and degradability** not biodegradable
- **Other information:**
- **Deposition by sedimentation**
- **Elimination by adsorption onto activated sludge**
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- **Water hazard class 1 (German Regulation) (Self-assessment):** slightly hazardous for water
- **Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.**
- **12.5 Results of PBT and vPvB assessment**
- **PBT:**
- **556-67-2 octamethylcyclotetrasiloxane**
- **vPvB:**
- **556-67-2 octamethylcyclotetrasiloxane**
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Must be specially treated adhering to official regulations.

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· **Waste disposal key:**

For this product no waste code number can be determined as per the European Waste List, since the intended use by the consumer. The waste key number must be determined in consultation with the regional waste disposal.

· **Uncleaned packaging:**· **Recommendation:**

Containers may use dangerous amounts of hydrogen contain unclean container and not re-filled with other materials because of possible reaction between residual product and harmful material. Can not be cleaned containers like the recycling. The packaging should be emptied completely before they are recycled in compliance with the regulations

**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 and the IBC Code**

Not applicable.

· **Transport/Additional information:**Not dangerous according to the above specifications.  
heat sensitive up to + 40°C· **UN "Model Regulation":**

Void

**SECTION 15: Regulatory information**· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Labelling according to Regulation (EC) No 1272/2008** Void· **Hazard pictograms** Void· **Signal word** Void· **Hazard statements** Void· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **National regulations:**· **Technical instructions (air):**

Class	Share in %
I	0.25-1

· **Waterhazard class:** Water hazard class 1 (VwVwS 17.05.99): slightly hazardous for water.

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· **Other regulations, limitations and prohibitive regulations**· **Substances of very high concern (SVHC) according to REACH, Article 57**

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

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.

· **Relevant phrases**

H226 Flammable liquid and vapour.

H361f Suspected of damaging fertility.

H413 May cause long lasting harmful effects to aquatic life.

· **Department issuing SDS:** environment protection department· **Contact:** Herr Ottensmann Tel. +49 (0)2056-25863-7· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Repr. 2: Reproductive toxicity – Category 2

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4