

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** *SI 4552-388, SI 4552-372*
- **Registration number**  
*REACH-registration for preparations is unnecessary. The ingredients are registered or preregistered.*
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** *SU12 Manufacture of plastics products, including compounding and conversion*
- **Article category** *AC13 Plastic articles*
- **Application of the substance / the preparation** *Raw material for plastics*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*SYNRES-ALMOCO BV.*  
*Hoek van Holland*  
*The Netherlands*  
*Tel.No.: ++31(0)174/389999*  
*Fax.No.: ++31(0)174/389988*  
*RASCHIG GMBH*  
*Mundenheimer Str. 100*  
*D-67061 Ludwigshafen/Rhein*  
*Tel.No.: ++49 (0)621/5618-0*  
*Fax No.: ++49 (0)621/588285*  
*e-mail : info@raschig.de*
- **Further information obtainable from:**  
*Chemical division/Health and safety department*  
*Tel. : +49 (0)621-5618-0*  
*Fax : +49 (0)621-5618-397*  
*Reference partners :*  
*Email : gohler@raschig.de, rreinke@raschig.de*
- **Emergency telephone number:**  
*For Chemical Emergency*  
*Spill, Leak, Fire, Exposure, or Accident*  
*Call CHEMTREC Day or Night*  
*Within USA and Canada: 1-800-424-9300*  
*Outside USA and Canada: +1 703-527-3887 (collect calls accepted)*

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
.....  
*Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.*  
-----
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
*Not applicable.*  
.....  
*R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*  
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- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the CLP regulation.*

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# Safety data sheet

## according to 1907/2006/EC, Article 31

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- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.  
P309 IF exposed or if you feel unwell:  
P314 Get medical advice/attention if you feel unwell.  
P401 Store in accordance with local/regional/national/international regulations.  
P402 Store in a dry place.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Silicone moulding compound

- **Dangerous components:**

CAS: 598-63-0 EINECS: 209-943-4	lead carbonate  T Repr. Cat. 1, 3 R61;  Xn R62-20/22;  N R50/53 R33 -----  Repr. 1A, H360Df; STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302; Acute Tox. 4, H332	< 0.5%
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- **SVHC** Does not contain SVHC substances

### 4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
In case of irritation consult an oculist .  
Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

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### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **Special hazards arising from the substance or mixture**  
Carbon monoxide and carbon dioxide  
Danger of forming toxic pyrolysis products.
- **Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **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.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Take precautionary measures against static discharges.  
Development and deposition of dust has to be avoided.  
Provide suction extractors if dust is formed.
- **Information about fire - and explosion protection:**  
Substance/product is self extinguishing, but can burn when combined with flammable material.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature:** At 15 °C to 25 °C
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:**  
Take appropriate measures against dust.  
No further data; see item 7.

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- **Control parameters**
- **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.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Do not inhale dust.  
don't smoke.
- **Respiratory protection:**  
Use suitable respiratory protective device in case of insufficient ventilation.  
Not necessary if room is well-ventilated.
- **Recommended filter device for short term use:** Filter FFP2
- **Protection of hands:** Protective gloves
- **Material of gloves**  
Nitrile rubber, NBR  
Recommended material strength:  $\geq 0.11$  mm
- **Penetration time of glove material** Penetration time  $\geq 8$  h
- **Eye protection:** Safety glasses
- **Body protection:** Not required

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Granulate
<b>Colour:</b>	Different according to colouring
<b>Odour:</b>	Nearly odourless
- **pH-value (500 g/l) at 20°C:** 6 - 9 (Suspension, 12 h 20°C)
- **Change in condition**

<b>Melting point/Melting range:</b>	$> 80^{\circ}\text{C}$
<b>Boiling point/Boiling range:</b>	Dec. $^{\circ}\text{C}$
- **Flash point:** n.a.  $^{\circ}\text{C}$
- **Self-igniting:** Product is not selfigniting.
- **Density at 20°C:**  $\sim 1.90 - 2.10$  g/cm<sup>3</sup>
- **Bulk density at 20°C:**  $\sim 850 - 1050$  kg/m<sup>3</sup>
- **Solubility in / Miscibility with water:** Insoluble.
- **Other information** Dissoluble lead : 0.00006 %
- **VOC USA** 0 %, ASTM 2369
- **VOC European Union %** 0 %
- **VOC Swiss** 0 % VOCV 08.10.02

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### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Danger of forming toxic pyrolysis products.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:**  
No irritating effect.  
Mechanical irritation possible
- **Chronic toxicity:**  
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.
- **Additional toxicological information:**  
After years of appropriate handling, no health problems have been observed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Degree of elimination:**
- **Classification:**  
Not readily biodegradable.  
Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** The bioaccumulation potential is considered to be negligible
- **Mobility in soil** No further relevant information available.
- **Other information:** Do not let it reach any body of water
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Water hazard class 1 (Self-assessment): slightly hazardous for water ( Germany )  
According to appendix 4 VwVwS ( German regulation )
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation :**  
Disposal considering to the local / regional / national / international regulations. Details have to be arranged with the authority concerned and / or the local waste management enterprise.
- **Uncleaned packaging:**
- **Recommendation:**  
Non contaminated packagings may be recycled.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### 14 Transport information

- |   |                 |
|---|-----------------|
| · <b>UN-Number</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void            |
| · <b>UN proper shipping name</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>   | Void            |
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>  | Void            |
| · <b>Packing group</b>  |                 |
| · <b>ADR, IMDG, IATA</b>  | Void            |
| · <b>Environmental hazards:</b>   |                 |
| · <b>Marine pollutant:</b>  | No              |
| · <b>Special precautions for user</b>   | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   | -               |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **IARC ( International Agency for the Research on Cancer )** None of the ingredients is listed.
- **EEC, Europe, EEC Directive 273/2004 Drugs** None of the ingredients is listed.
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.

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*P281 Use personal protective equipment as required.*

*P309 IF exposed or if you feel unwell:*

*P314 Get medical advice/attention if you feel unwell.*

*P401 Store in accordance with local/regional/national/international regulations.*

*P402 Store in a dry place.*

*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **Information about limitation of use:**

*Employment restrictions concerning juveniles must be observed.*

*Employment restrictions concerning pregnant and lactating women must be observed.*

· **Breakdown regulations:** Breakdown Directive : Not Part of Annex I ( German Regulation )

· **Technical instructions (air):**

· **Paragraph : / Class :**

5,2,1

5,2,2 Germany

· **Other regulations, limitations and prohibitive regulations**

· **BGV (Employer's Liability Insurance Directives) : (Germany)**

*Consider BG-device " Static electrification" (Germany)*

· **Substances of very high concern (SVHC) according to REACH, Article 57**

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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**

*H302 Harmful if swallowed.*

*H332 Harmful if inhaled.*

*H360Df May damage the unborn child. Suspected of damaging fertility.*

*H373 May cause damage to organs through prolonged or repeated exposure.*

*H400 Very toxic to aquatic life.*

*H410 Very toxic to aquatic life with long lasting effects.*

*R20/22 Harmful by inhalation and if swallowed.*

*R33 Danger of cumulative effects.*

*R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

*R61 May cause harm to the unborn child.*

*R62 Possible risk of impaired fertility.*

· **Department issuing MSDS:** Chemical division/Health and safety department

· **Contact:** Dr. Ohler ( [GOhler@raschig.de](mailto:GOhler@raschig.de) ) / Mr. Reinke ( [RReinke@raschig.de](mailto:RReinke@raschig.de) )

· **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 Organization*

*ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals*

· **\* Data compared to the previous version altered.**