

**Safety Data Sheet (1907/2006/EC)**

Material: 60042937

ELASTOSIL® E70  
RED

Version: 1.17 (GB)

Date of print: 07.11.2013

Date of last alteration: 05.12.2012

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Commercial product name:** ELASTOSIL® E70  
RED**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Industrial.

Use of substance / preparation:

Raw material for: elastomer products .

**1.3 Details of the supplier of the safety data sheet****Manufacturer/distributor:** Wacker Chemie AG  
**Street/POB-No.:** Hanns-Seidel-Platz 4  
**State/postal code/city:** D 81737 München  
**Telephone:** +49 89 6279-0  
**Telefax:** +49 89 6279-1770**Information about the Safety Data Sheet:** Telephone +49 8677 83-4888  
Telefax +49 8677 886-9722  
eMail WLCP-MSDS@wacker.com**1.4 Emergency telephone number****Emergency Information:** Plant fire brigade +49 8677 83-2222  
**Emergency Information (internat.):** National Response Center +49 621 60-43333**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC):**

R-Phrase	Description
R-	-

This product is not a dangerous preparation within the meaning of Directive 1999/45/EC.

**2.2 Label elements****Labelling (67/548/EEC, 1999/45/EC):**

R-Phrase	Description
R-	-

S-Phrase	Description
S-	-

**Special identification instructions:**

Safety data sheet available for professional users on request. Contains: Methyl-O,O',O"-butan-2-on-trioximo-silane . May produce an allergic reaction.

**2.3 Other hazards**

No data are available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

not applicable

**3.2 Mixtures****3.2.1 Chemical characterization (preparation)**

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Polydimethylsiloxane and fillers and auxiliaries and acetoxysilane cross-linker

**3.2.2 Hazardous ingredients**

EC-No. REACH no.	CAS No.	Material	Content %	Classification*	Comment
238-878-4	14808-60-7	Quartz	<15	Xn; R48/20 STOT RE 1 by inhalation; H372	[1]
241-677-4 01- 2119881778- 15	17689-77-9	Triacetoxylethylsilane	<3	C; R14-22-34 Acute Tox. 4 oral; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 EUH014	[1]
224-221-9	4253-34-3	Triacetoxymethylsilane	<2	C; R14-22-34 Skin Corr. 1B; H314 Acute Tox. 4 oral; H302 Eye Dam. 1; H318 EUH014	[1]
		Oligomeric ethyl and methyl acetoxysilanes	<2	C; R34 Skin Corr. 1B; H314	[1]
300-344-4 01- 2119560586- 30	93925-42-9	Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane	<0,2	T; R10-20/22-41-48/25- 60-61-68-52/53 Muta. 2; H341 Repr. 1B; H360F Repr. 1B; H360D Acute Tox. 4 by inhalation; H332 Aquatic Chronic 3; H412 Acute Tox. 4 oral; H302 Eye Dam. 1; H318 STOT RE 1; H372 Flam. Liq. 3; H226	[1]

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance; [5] = SVHC-candidate (substance of very high concern).

\*Classification codes are explained in section 16.

Quartz : This ingredient does not require classification. Due to this material's physical properties, inhalation is not dangerous.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

**After inhalation:**

Material cannot be inhaled under normal conditions.

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**After contact with the skin:**

Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

**After contact with the eyes:**

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

**After swallowing:**

Give several small portions of water to drink. Do not induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

Any relevant information can be found in other parts of this section.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data are available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media:**

water spray , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .

**Extinguishing media which must not be used for safety reasons:**

water jet .

**5.2 Special hazards arising from the substance or mixture**

Hazardous decomposition products: acetic acid .

**5.3 Advice for firefighters****Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapours.

**6.2 Environmental precautions**

Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth).

**6.3 Methods and material for containment and cleaning up**

Do not flush away with water. Take up mechanically and dispose of according to local/state/federal regulations. Absorb with liquid, mainly acid binding material and dispose of according to local/state/federal regulation. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

**Further information:**

Eliminate all sources of ignition.

**6.4 Reference to other sections**

Relevant information in other sections have to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

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

Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10.

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**Precautions against fire and explosion:**

Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

**7.2 Conditions for safe storage, including any incompatibilities****Conditions for storage rooms and vessels:**

none known

**Advice for storage of incompatible materials:**

not applicable

**Further information for storage:**

Protect against moisture. Keep container tightly closed and store in a cool, well ventilated place. Do not store in open air.

**7.3 Specific end use(s)**

No data are available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Maximum airborne concentrations at the workplace:**

CAS No.	Material	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
64-19-7	Acetic acid	OEL	25,0	10,0		

**8.2 Exposure controls****8.2.1 Exposure in the work place limited and controlled****General protection and hygiene measures:**

Avoid contact with eyes and skin. Do not breathe vapours. Do not eat, drink or smoke when handling.

**Personal protection equipment:****Respiratory protection**

In case of long or strong exposure: gas mask filter ABEK .

**Hand protection**

protective gloves made of fluorinated rubber . Gloves suitable for up to 60 minutes' use. The selection of appropriate gloves not only depends on the material, but also on other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.

**Eye protection**

tight fitting protective goggles .

**Skin protection**

protective clothing .

**8.2.2 Exposure to the environment limited and controlled**

Prevent material from entering surface waters and soil.

**8.3 Further information for system design and engineering measures**

Observe information in section 7.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General information:**

Physical state / form .....: paste  
Colour .....: red  
Odour .....: pungent

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**Important information about the protection of health, safety and the environment:**

Property:	Value:	Method:
Melting point / melting range .....	not applicable	
Boiling point / boiling range .....	not applicable	
Flash point.....	> 230 °C	(ASTM D92)
Ignition temperature .....	465 °C	(DIN 51794)
Lower explosion limit (LEL) .....	not applicable	
Upper explosion limit (UEL).....	not applicable	
Vapour pressure.....	not applicable	
Density .....	1,22 g/cm <sup>3</sup> at 23 °C	(DIN 53217)
Water solubility / miscibility.....	virtually insoluble	
pH-Value .....	not applicable	
Viscosity (dynamic) .....	60000 mPa.s at 20 °C	(BROOKFIELD)

**9.2 Other information**

Re 9.2 solubility in water: Hydrolytic decomposition occurs. Re 9.2 pH Value: Product displays acidic reaction with water. Explosion limits for released acetic acid: 4 - 17%(V).

**SECTION 10: Stability and reactivity****10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

**10.4 Conditions to avoid**

moisture .

**10.5 Incompatible materials**

Reacts with: water , basic substances and alcohols . Reaction causes the formation of: acetic acid .

**10.6 Hazardous decomposition products**

By hydrolysis: acetic acid . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****11.1.1 Acute toxicity****Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD <sub>50</sub> : > 2000 mg/kg	no data available	Conclusion by analogy

**11.1.2 Skin corrosion/irritation****Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy OECD 404

**11.1.3 Serious eye damage / eye irritation**

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**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy OECD 405

**11.1.4 Respiratory or skin sensitization****Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Bühler	Conclusion by analogy OECD 406

**11.1.5 Germ cell mutagenicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.6 Carcinogenicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.7 Reproductive toxicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.8 Specific target organ toxicity (single exposure)****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.9 Specific target organ toxicity (repeated exposure)****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.10 Aspiration hazard****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.11 Further toxicological information**

Product(s) of hydrolysis: In contact with dampness product separates a small quantity of acetic acid (64-19-7) which irritates skin and mucous membranes.

**SECTION 12: Ecological information****12.1 Toxicity****Assessment:**

According to past experience toxicity to fish is improbable. According to current knowledge adverse effects on water purification plants are not expected.

**12.2 Persistence and degradability****Assessment:**

The product of hydrolysis (acetic acid) is readily biodegradable. Silicone content: Biologically not degradable.

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**12.3 Bioaccumulative potential****Assessment:**

Bioaccumulation is not expected to occur.

**12.4 Mobility in soil****Assessment:**

Polymer component: Separation by sedimentation.

**12.5 Results of PBT and vPvB assessment**

No data are available.

**12.6 Other adverse effects**

none known

**12.7 Additional information**

In cross-linked state not soluble in water. Easily separable from water by filtration.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Material****Recommendation:**

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

**13.1.2 Uncleaned packaging****Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

**13.1.3 Waste Disposal Legislation Ref.No.(EC)**

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**SECTION 14: Transport information****14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group****Road ADR:**

Valuation .....: Not regulated for transport

**Railway RID:**

Valuation .....: Not regulated for transport

**Transport by sea IMDG-Code:**

Valuation .....: Not regulated for transport

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

Valuation .....: Not regulated for transport

**14.5 Environmental hazards**

Hazardous to the environment: no

**14.6 Special precautions for user**

Relevant information in other sections have to be considered.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Bulk transport in tankers is not intended.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

**Relevant regulations:**

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999  
Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 &amp; Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

**15.2 Chemical safety assessment**

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

**15.3 Other international regulations****Details of international registration status:**

Listed on or in accordance with the following inventories:

AICS - Australia

IECSC - China

ECL - Korea

EINECS - Europe

PICCS - Philippines

**SECTION 16: Other information****16.1 Material**

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

All deliveries are subject to the WACKER SILICONES Health Care Policy, which is available at [www.wacker.com](http://www.wacker.com).

**16.2 Further information:**

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

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## Explanation of the GHS classification code:

STOT RE 1; H372 ..... : Specific target organ toxicity (repeated exposure) Category 1; Causes damage to organs through prolonged or repeated exposure.

Acute Tox. 4; H302..... : Acute toxicity Category 4; Harmful if swallowed.

Skin Corr. 1B; H314... : Skin corrosion/irritation Category 1B; Causes severe skin burns and eye damage.

Eye Dam. 1; H318 ..... : Serious eye damage / eye irritation Category 1; Causes serious eye damage.

EUH014..... : Reacts violently with water.

Skin Corr. 1B; H314... : Skin corrosion/irritation Category 1B; Causes severe skin burns and eye damage.

Acute Tox. 4; H302..... : Acute toxicity Category 4; Harmful if swallowed.

Eye Dam. 1; H318 ..... : Serious eye damage / eye irritation Category 1; Causes serious eye damage.

EUH014..... : Reacts violently with water.

Skin Corr. 1B; H314... : Skin corrosion/irritation Category 1B; Causes severe skin burns and eye damage.

Muta. 2; H341 ..... : Germ cell mutagenicity Category 2; Suspected of causing genetic defects.

Repr. 1B; H360F..... : Reproductive toxicity Category 1B (impair fertility); May damage fertility.

Repr. 1B; H360D ..... : Reproductive toxicity Category 1B (developmental toxicity); May damage the unborn child.

Acute Tox. 4; H332..... : Acute toxicity Category 4; Harmful if inhaled.

Aquatic Chronic 3; H412 Hazardous to the aquatic environment chronic, category 3; Harmful to aquatic life with long lasting effects.

Acute Tox. 4; H302..... : Acute toxicity Category 4; Harmful if swallowed.

Eye Dam. 1; H318 ..... : Serious eye damage / eye irritation Category 1; Causes serious eye damage.

STOT RE 1; H372 ..... : Specific target organ toxicity (repeated exposure) Category 1; Causes damage to organs through prolonged or repeated exposure.

Flam. Liq. 3; H226 ..... : Flammable liquids Category 3; Flammable liquid and vapour.

R-Phrase	Description
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R14 R22 R34	Reacts violently with water. Harmful if swallowed. Causes burns.
R14 R22 R34	Reacts violently with water. Harmful if swallowed. Causes burns.
R34	Causes burns.
R10 R20/22 R41	Flammable. Harmful by inhalation and if swallowed. Risk of serious damage to eyes. Toxic: danger of serious damage to health by prolonged exposure if swallowed. May impair fertility. May cause harm to the unborn child.
R48/25 R60 R61	Possible risk of irreversible effects. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68 R52/53	

**- End of Safety Data Sheet -**