

Safety Data Sheet (1907/2006/EC)

Material: 60003726

**ELASTOSIL® E41
TRANSPARENT**

Version: 3.9 (GB)



Date of print: 03.10.2012

Date of last alteration: 08.02.2012

1. SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Commercial product name: ELASTOSIL® E41
TRANSPARENT****1.2 Relevant identified uses of the substance or mixture and uses advised against**Industrial.
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 6279-1770Information 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**2. SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC):**

R-Phrase	Description
R11	Highly flammable.
R36/38	Irritating to eyes and skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

	F	Highly flammable
	Xn	Harmful

R-Phrase	Description
R11	Highly flammable.
R36/38	Irritating to eyes and skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Phrase	Description
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33	Take precautionary measures against static discharges.
S36/37	Wear suitable protective clothing and gloves.

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S46 | If swallowed, seek medical advice immediately and show this container or label.

Hazard ingredients (labelling EC):

Toluene

2.3 Other hazards

No data are available.

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

not applicable

3.2 Mixtures
3.2.1 Chemical characterization (preparation)

Polydimethylsiloxane + auxiliary + silane + solvent

3.2.2 Hazardous ingredients

EC-No. REACH no.	CAS No.	Material	Content %	Classification*	Comment
203-625-9 01- 2119471310- 51	108-88-3	Toluene	<15	F, Xn; R11-38-48/20-63-65- 67 Repr. 2; H361d STOT RE 2; H373 STOT SE 3; H336 Skin Irrit. 2; H315 Asp. Tox. 1; H304 Flam. Liq. 2; H225	[1]
224-221-9	4253-34-3	Triacetoxymethylsilane	<5	C; R14-22-34 Skin Corr. 1B; H314 Acute Tox. 4 oral; H302 Eye Dam. 1; H318 EUH014	[1]
213-928-8 01- 2119634587- 29	1067-33-0	Di-n-butyltin diacetate	<0,1	T, N; R60-61-22-34-48/25- 68-50/53 Acute Tox. 4 oral; H302 Skin Corr. 1B; H314 Aquatic Chronic 1; H410 Aquatic Acute 1; H400 STOT RE 1; H372 Repr. 1B; H360F Repr. 1B; H360D Muta. 2; H341 Eye Dam. 1; H318	[1] M = 10

[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).

M = M-factor for acute aquatic toxicity

*Classification codes are explained in section 16.

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4. 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). Vapours may cause dizziness. Do not leave affected individuals unattended. Pregnant women exposed to this substance must seek medical advice.

After inhalation:

Provide fresh air.

After contact with the skin:

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

After exposure, it is recommended that you seek specialist medical advice. Product contains reproductive toxins (may cause harm to the unborn child and /or impairs male or female reproductive function).

5. 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

Heavy soot formation during combustion. Hazardous decomposition products: acetic acid .

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

Use respiratory protection independent of recirculated air.

6. 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. If material is released indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

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. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Exhaust vapours.

Further information:

Eliminate all sources of ignition.

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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).

7. 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 10.2. Must be syphoned off in situ. Spilled substance increases risk of slipping.

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:**

-

Advice for storage of incompatible materials:

-

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.

Minimum temperature allowed during storage and transportation: 0 °C

7.3 Specific end use(s)

No data are available.

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

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³
108-88-3	Toluene	OEL	191,0	50,0		
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 inhale gases/vapours/aerosols. Keep working clothes separately. Do not eat, drink or smoke when handling.

Personal protection equipment:**Respiratory protection**

gas mask filter ABEK . In case of long or strong exposure: positive pressure self contained breathing apparatus .

Hand protection

protective gloves made of fluorinated rubber . Gloves suitable for up to 60 minutes' use.

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. Do not introduce large amounts into purification plants.

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8.3 Further information for system design and engineering measures

Observe information in section 7.

9. SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General information:**Physical state / form: liquid
Colour: transparent
Odour: strong**Important information about the protection of health, safety and the environment:**

Property:	Value:	Method:
Melting point / melting range	not applicable	
Boiling point / boiling range	111 °C at 1013 hPa	
Flash point.....	15 °C	(DIN 53213)
Ignition temperature	approx. 540 °C	(DIN 51794)
Lower explosion limit (LEL)	1,2 Vol-%	
Upper explosion limit (UEL).....	7 Vol-%	
Vapour pressure.....	29 hPa at 20 °C	
Density	1,06 g/cm ³ at 20 °C	(DIN 53217)
Water solubility / miscibility.....	virtually insoluble	
pH-Value	not applicable	
Viscosity (dynamic)	65000 mPa.s at 23 °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).

Thermal decomposition: not applicable

10. 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

none known

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.

11. SECTION 11: Toxicological information**11.1 Information on toxicological effects****11.1.1 Acute toxicity****Assessment:**

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

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11.1.2 Skin corrosion/irritation**Assessment:**

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

11.1.3 Serious eye damage / eye irritation**Assessment:**

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

11.1.4 Respiratory or skin sensitization**Assessment:**

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

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:**

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

11.1.11 Further toxicological information

In contact with dampness product separates acetic acid (64-19-7) which irritates skin and mucous membranes. Toluene (108-88-3) irritates the mucous membranes, slightly irritates the skin and is narcotic. If the lung tissue is directly affected, inflammation of the lung may occur. Kidney and bone marrow damage were described.

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

For the product as a whole, no test data is available.

12.2 Persistence and degradability**Assessment:**

Silicone content: Biologically not degradable. Organic solvent: Readily biologically degradable.

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12.3 Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur.

12.4 Mobility in soil**Assessment:**

No data known.

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.

13. 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.

14. SECTION 14: Transport information**14.1–14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group****Road ADR:**Valuation: Hazardous product
14.1 UN no.: 1993
14.2 Proper Shipping Name: Entzündbarer flüssiger Stoff, n.a.g..(Enthält Toluene und n-Propanol)
14.3 Class: 3
14.4 Packaging Group: II**Railway RID:**Valuation: Hazardous product
14.1 UN no.: 1993
14.2 Proper Shipping Name: Entzündbarer flüssiger Stoff, n.a.g..(Enthält Toluene und n-Propanol)
14.3 Class: 3
14.4 Packaging Group: II**Transport by sea IMDG-Code:**Valuation: Hazardous product
14.1 UN no.: 1993
14.2 Proper Shipping Name: Flammable liquid, n.o.s..(contains toluene and n-propanol)
14.3 Class: 3

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14.4 Packaging Group: II

Air transport ICAO-TI/IATA-DGR:

Valuation: Hazardous product

14.1 UN no.: 1993

14.2 Proper Shipping Name: Flammable liquid, n.o.s..(contains toluene and n-propanol)

14.3 Class: 3

14.4 Packaging Group: II

14.5 Environmental hazards

Hazardous to the environment: no

Marine Pollutant (IMDG): 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.

15. 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.

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 & Subsidiary Regulations.

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

15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

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

Listed on or in accordance with the following inventories:

ENCS - Japan

IECSC - China

TSCA - USA

PICCS - Philippines

EINECS - Europe

ECL - Korea

DSL - Canada

AICS - Australia

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

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

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:

- Repr. 2; H361d.....: Reproductive toxicity Category 2 (developmental toxicity); Suspected of damaging the unborn child.
- STOT RE 2; H373.....: Specific target organ toxicity (repeated exposure) Category 2; May cause damage to organs through prolonged or repeated exposure.
- STOT SE 3; H336.....: Specific target organ toxicity (single exposure) Category 3 (narcotic effects); May cause drowsiness and dizziness.
- Skin Irrit. 2; H315.....: Skin corrosion/irritation Category 2; Causes skin irritation.
- Asp. Tox. 1; H304.....: Aspiration hazard Category 1; May be fatal if swallowed and enters airways.
- Flam. Liq. 2; H225.....: Flammable liquids Category 2; Highly flammable liquid and vapour.
- 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.
- 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.
- Aquatic Chronic 1; H410.....: Hazardous to the aquatic environment chronic, category 1; Very toxic to aquatic life with long lasting effects.
- Aquatic Acute 1; H400.....: Hazardous to the aquatic environment acute, category 1; Very toxic to aquatic life.
- STOT RE 1; H372.....: Specific target organ toxicity (repeated exposure) Category 1; Causes damage to organs through prolonged or repeated exposure.
- 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.
- Muta. 2; H341.....: Germ cell mutagenicity Category 2; Suspected of causing genetic defects.
- Eye Dam. 1; H318.....: Serious eye damage / eye irritation Category 1; Causes serious eye damage.

R-Phrase	Description
R11 R38 R48/20 R63 R65 R67	Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.
R14 R22 R34	Reacts violently with water. Harmful if swallowed. Causes burns.
R60 R61 R22 R34 R48/25 R68 R50/53	May impair fertility. May cause harm to the unborn child. Harmful if swallowed. Causes burns. Toxic: danger of serious damage to health by prolonged exposure if swallowed. Possible risk of irreversible effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- End of Safety Data Sheet -