

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

Date of print: 26.07.2018

Date of last alteration: 13.06.2018

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**Use of substance / preparation:
Industrial.
Adhesive / sealant .**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 (German): 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**

Hazard class	Hazard category	Route of exposure
Specific target organ toxicity (repeated exposure)	Category 2	
Reproductive toxicity	Category 2 (developmental toxicity)	
Serious eye damage / eye irritation	Category 2	
Chronic aquatic toxicity	Category 3	
Skin corrosion/irritation	Category 2	
Flammable liquids	Category 2	

2.2 Label elements

Pictogram(s):



Signal Word: Danger

H-Code	Hazard Statements
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

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P-Code	Precautionary Statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection.
P260	Do not breathe vapours/spray.
P243	Take action to prevent static discharges.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P332+P313	If skin irritation occurs: Get medical advice/ attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to waste disposal.

Hazard ingredients (labelling):

Toluene

2.3 Other hazards

No data available.

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

not applicable

3.2 Mixtures**3.2.1 Chemical characteristics**

Polydimethylsiloxane + auxiliary + silane + solvent

3.2.2 Hazardous ingredients

EC-No.	CAS No.	Material	Content %
203-625-9	108-88-3	Toluene	>10 – <20
224-221-9	4253-34-3	Triacetoxymethylsilane	>5 – <10
213-928-8	1067-33-0	Di-n-butyltin diacetate	<0,1

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 contact with the eyes:

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

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 inhalation:

Provide fresh air.

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).

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

water mist , 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

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: carbon oxides , silicon oxides , incompletely burnt hydrocarbons , toxic and very toxic fumes . Heavy soot formation during combustion.

5.3 Advice for firefighters

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air. Use tightly fitting chemical protection suit (see section 8). Keep unprotected persons away.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Task force: Use tightly fitting chemical protection suit (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not walk through spilled material. Ensure adequate ventilation. If material is released indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with liquid, mainly acid binding material and dispose of according to local/state/federal regulation. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

6.4 Reference to other sections

Relevant information in other sections has 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. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

Precautions against fire and explosion:

Product may release acetic acid. 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.

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

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7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

Minimum temperature allowed during storage and transportation: 0 °C

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

-

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Avoid exposure - obtain special instructions before use. Avoid exposure of the substance to pregnant women. Observe standard industrial hygiene practices for the handling of chemical substances. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling. Preventive skin protection recommended. Wash hands at the end of work and before eating. Keep working clothes separately. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Use with adequate ventilation. Provide emergency shower and eye-bath. Keep away from foodstuff, drink and feedingstuff.

Personal protection equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

For long or intense exposure, use respiratory protective equipment. Suitable respiratory equipment: Positive pressure self contained breathing apparatus, according to acknowledged standards such as EN 137.

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

tight fitting protective goggles .

Hand protection

Gloves are required at all times when handling the material.

Recommended glove types: Protective gloves made of fluorinated rubber
thickness of the material: > 0,7 mm
Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of 5-layer laminate of PE and EVOH (4H)
thickness of the material: 0,062 mm
Breakthrough time: > 480 min

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

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Date of last alteration: 13.06.2018

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

If handled uncovered: Chemical protective clothing, full-body liquid-tight protection if necessary. Please observe the instructions regarding permeability time which are provided by the supplier. antistatic protective clothing and shoes .

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

8.3 Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

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

Property:	Value:	Method:
Appearance		
Physical state / form	liquid	
Colour.....	transparent	
Odour		
Odour	strong	
Odour limit		
Odour limit :	no data available	
pH-Value		
pH-Value	not applicable	
Melting point/freezing point		
Melting point / melting range	not applicable	
Initial boiling point and boiling range		
Boiling point / boiling range	111 °C at 1013 hPa	(-)
Flash point		
Flash point.....	6 °C	(DIN 53213)
Evaporation rate		
Evaporation rate	no data available	
Upper/lower flammability or explosive limits		
Lower explosion limit (LEL)	1,2 Vol-%	(-)
Upper explosion limit (UEL).....	7 Vol-%	(-)
Vapour pressure		
Vapour pressure.....	29 hPa / 20 °C	(-)
Solubility(ies)		
Water solubility / miscibility.....	virtually insoluble	
Vapour density		
Relative gas/vapour density	No data known.	
Relative Density		
Relative Density	1,078 (23 °C)	(DIN 53217)
	(Water / 4 °C = 1,00)	
Density	1,078 g/cm ³ (23 °C)	(DIN 53217)
Partition coefficient: n-octanol/water		
Partition coefficient: n-octanol/water.....	No data known.	
Auto-ignition temperature		
Ignition temperature	approx. 540 °C	(DIN 51794)
Decomposition temperature		
Thermal decomposition	not applicable	
Viscosity		
Viscosity (dynamic)	65000 mPa.s at 23 °C	(Brookfield)
Molecular mass		
Molecular mass	not applicable	

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

Date of print: 26.07.2018

Date of last alteration: 13.06.2018

9.2 Other information

Solubility in water: Hydrolytic decomposition occurs. 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. Violent reactions are possible with various chemicals.

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

10.4 Conditions to avoid

moisture , Heat, open flames, and other sources of ignition.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

By hydrolysis: acetic acid .

SECTION 11: Toxicological information**11.1 Information on toxicological effects****11.1.1 General information**

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity**Assessment:**

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

Acute toxicity estimate (ATE):ATE_{mix} (oral): > 5000 mg/kg**Data related to ingredients:****Toluene:**

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD ₅₀ : 5580 mg/kg	rat	ECHA
dermal	LD ₅₀ : 12400 mg/kg	rabbit	ECHA
by inhalation (vapour)	LC ₅₀ : 28,1 mg/l; 4 h	rat	ECHA

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

Result/Effect	Species/Test system	Source
irritating The given result is based on an evaluation of the whole database for this endpoint ("weight of evidence").	rabbit	Conclusion by analogy

Data related to ingredients:**Toluene:**

Result/Effect	Species/Test system	Source
irritating	rabbit	ECHA OECD 404

11.1.4 Serious eye damage / eye irritation

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

Date of print: 26.07.2018

Date of last alteration: 13.06.2018

Product details:

Result/Effect	Species/Test system	Source
irritating The given result is based on an evaluation of the whole database for this endpoint ("weight of evidence").	rabbit	Conclusion by analogy

Data related to ingredients:**Toluene:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	ECHA OECD 405

11.1.5 Respiratory or skin sensitization**Assessment:**

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

Data related to ingredients:**Toluene:**

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligman	ECHA OECD 406

11.1.6 Germ cell mutagenicity**Assessment:**

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

Data related to ingredients:**Toluene:**

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) mouse lymphoma cells	ECHA OECD 476
negative	mutation assay (in vitro) bacterial cells	ECHA OECD 471
negative	chromosome aberration assay (in vivo) rat intraperitoneal; bone marrow cells	ECHA

11.1.7 Carcinogenicity**Assessment:**

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

11.1.8 Reproductive toxicity**Assessment:**

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

Data related to ingredients**Toluene:**

The substance can possibly impair the unborn child in humans.

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

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

Data related to ingredients:

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

Date of print: 26.07.2018

Date of last alteration: 13.06.2018

Toluene:

Route of exposure	Result/Effect	Source
by inhalation	Target organs: central nervous system Vapours may be narcotising.	ECHA

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

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

Data related to ingredients:**Toluene:**

Target organs in animal experiments: Central nervous system.

11.1.11 Aspiration hazard**Assessment:**

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

Data related to ingredients:**Toluene:**

Product can pose an aspiration hazard.

11.1.12 Further toxicological information

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:**

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

Data related to ingredients:

Data derived for the product as a whole are of higher priority than data for single ingredients.

Toluene:

Result/Effect	Species/Test system	Source
LC ₅₀ : 5,5 mg/l (measured)	dynamic Coho salmon (<i>Oncorhynchus kisutch</i>) (96 h)	ECHA
EC ₅₀ : 3,78 mg/l (measured)	semistatic Daphnia (48 h)	ECHA
EC ₅₀ (photosynthesis): 134 mg/l (nominal)	algae (3 h)	ECHA

12.2 Persistence and degradability**Assessment:**

Silicone content: biologically not degradable. Separation by sedimentation.

Data related to ingredients:**Toluene:**

Readily biodegradable.

12.3 Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur.

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

Date of print: 26.07.2018

Date of last alteration: 13.06.2018

12.4 Mobility in soil**Assessment:**

No data known.

12.5 Other adverse effects

none known

12.6 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:**

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

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. Uncleaned packaging should be treated with the same precautions as the material.

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

Valuation: Dangerous Goods

14.1 UN no.: 1993

14.3 Class: 3

Railway RID:

Valuation: Dangerous Goods

14.1 UN no.: 1993

14.3 Class: 3

Transport by sea IMDG-Code:

Valuation: Dangerous Goods

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

Air transport ICAO-TI/IATA-DGR:

Valuation: Dangerous Goods

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

Road transport: Hazardous Materials Exemption - Limited Quantities (3.4 ADR/RID)!

Rail transport: Hazardous Materials Exemption - Limited Quantities (3.4 ADR/RID)!

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

Date of print: 26.07.2018

Date of last alteration: 13.06.2018

Ship transport: LIMITED QUANTITY acc. 3.4 IMDG-Code possible up to 30 kg gross per package (combination packaging).

Relevant information in other sections has to be considered.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport in tankers is not intended.

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.

15.2 Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea)	ECL (Existing Chemicals List): This product is listed in, or complies with, the substance inventory.
Japan	ENCS (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
Australia	AICS (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
People's Republic of China	IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada	DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA).....	TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan (Republic of China).....	TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA).....	REACH (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

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.

Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (INTL-GHS)

Date of print: 26.07.2018

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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.

Classification	Rationale:
Specific target organ toxicity (repeated exposure), Category 2	Calculation method
Reproductive toxicity, Category 2 (developmental toxicity)	Calculation method
Serious eye damage / eye irritation, Category 2	On basis of test data.
Chronic aquatic toxicity, Category 3	Calculation method
Skin corrosion/irritation, Category 2	On basis of test data.
Flammable liquids, Category 2	On basis of test data.

- End of Safety Data Sheet -