

**Safety Data Sheet (91/155/EEC)****ELASTOSIL® E43 TRANSPARENT**

Version: 1.8 (GB)      Date of print: 31.10.2003      Date of last alteration: 20.10.2003

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

**1 Identification of the substance/preparation and company****1.1 Name of substance/preparation**

Commercial product name: ELASTOSIL® E43 TRANSPARENT

**1.2 Use of substance / preparation:**Industrial.  
Raw material for: elastomer products .**1.3 Company name**Manufacturer: Wacker-Chemie GmbH  
Street/POB-No.: Hanns-Seidel-Platz 4  
State/postal code/city: D 81737 Munchen  
Telephone: +4989627901  
Telefax: +498677832356Distributor: Wacker Chemicals Australia Pty Ltd  
Street/POB-No.: Unit 18/20 Duerdin Street  
State/postal code/city: Clayton North Vic 3168  
Telephone: +61 3 9541 8900  
Telefax: +61 3 9541 8989**1.4 Emergency telephone number**Emergency Information Regulatory Compliance +61 3 9541 8900  
Manager  
Emergency Information ADT Security - +61 3 9808 7363**2 Composition/information on ingredients****2.1 Chemical characterization (preparation):****Chemical characteristics**

Polydimethylsiloxane + fillers + auxiliaries + acetoxysilane cross-linker

**2.2 Hazardous ingredients:**

EINECS / ELINCS-No.	CAS No.	Material	Content %		Warning Label (EU)	
			from	until	Symbol	R-Phrases
224-221-9	4253-34-3	Triacetoxymethylsilane		<5,0	C	14-22-34

R-Phrase	Description
R14 R22 R34	Reacts violently with water. Harmful if swallowed. Causes burns.

**3 Hazards identification****3.1 Classification:**

R-Phrase	Description
R-	-

**4 First-aid measures****4.1 General information:**

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**4.2 After inhalation:**

Provide fresh air. In cases of sickness seek medical advice (show label if possible).

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- 4.3 After contact with the skin:**  
Wash with plenty of water or water and soap. Seek medical advice in case of continuous irritation.
- 4.4 After contact with the eyes:**  
Rinse immediately with plenty of water for 10-15 minutes and seek medical advice.
- 4.5 After swallowing:**  
Induce drinking plenty of water in small portions. Do not induce vomiting. Seek medical advice immediately and produce the label or packaging.

**5 Fire-fighting measures**

- 5.1 Suitable extinguishing media:**  
water spray , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .
- 5.2 Extinguishing media which must not be used for safety reasons:**  
water jet .
- 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**  
Hazardous decomposition products: acetic acid .
- 5.4 Special protective equipment for fire fighting:**  
Use respiratory protection independent of recirculated air.

**6 Accidental release measures**

- 6.1 Personal precautions:**  
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 for 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.
- 6.4 Further information:**  
Eliminate all sources of ignition.

**7 Handling and storage**

- 7.1 Handling**
- Precautions for safe handling:**  
Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10.2.
- Precautions against fire and explosion:**  
Vapours may form in closed rooms with air mixtures, leading to explosion in the presence of sources of ignition, even in empty, uncleaned vessels. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.
- 7.2 Storage**
- 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.

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Minimum temperature allowed during storage and transportation: 0 °C

**8 Exposure controls and personal protection equipment****8.1 Exposure limits****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	TLV_GB	25,0	10,0		

**8.2 Exposure limited and controlled****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.

**Eye protection:**

tight fitting protective goggles .

**Skin protection:**

protective clothing .

**8.2.2 Exposure to the environment limited and controlled:****9 Physical and chemical properties****9.1 General information**Physical state / form.....: paste  
Colour.....: transparent  
Odour.....: pungent**9.2 Important information about the protection of health, safety and the environment****Method  
(67/548/EEC):**Melting point / melting range.....: not applicable  
Boiling point / boiling range.....: not applicable  
Flash point.....: not applicable  
Autoignition temperature.....: approx. 460 °C  
Lower explosion limit (LEL).....: not applicable  
Upper explosion limit (UEL).....: not applicable  
Vapour pressure.....: not applicable  
Density.....: approx. 1,1 g/cm<sup>3</sup> at 20 °C (DIN 51757)  
Water solubility / miscibility.....: virtually insoluble  
pH-Value.....: not applicable  
Viscosity (dynamic).....: 200000 - 500000 mPa\*s**9.3 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.....: No decomposition when used according to regulations.

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**10 Stability and reactivity****10.0 General information:**

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

**10.1 Conditions to avoid:**

moisture .

**10.2 Materials to avoid:**

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

**10.3 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 Toxicological information****11.0 General information:**

After cross-linking and removal of volatile substances product is not mutagenic nor cancerogenic nor teratogenic and is not hazardous to men and ecology.

**11.1 Toxicological tests****Specific symptoms in animal test:**

Evaluation in analogy to a tested similar product: By skin and eye contact: Slight irritation possible.

**Further information:**

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**11.3 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.

**12 Ecological information****12.1 Ecotoxicity**

According to past experience toxicity to fish is improbable.

**Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):**

According to current knowledge adverse effects on water purification plants are not expected.

**12.2 Mobility**

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**12.3 Persistence and degradability****Biodegradation / further information:**

Biologically not degradable.

**Further information:**

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**12.4 Bio-accumulation potential****Further information:**

Bioaccumulation is not expected to occur.

**12.5 Other harmful effects**

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**12.6 Further ecological information****General information:**

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

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**13 Disposal considerations****13.1 Material****Recommendation:**

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

**13.2 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.

**14 Transport information****14.1 Land transport GGVSE/ADR and RID****Road ADR:**

Valuation.....: Not regulated for transport

**Railway RID:**

Valuation.....: Not regulated for transport

**14.2 Inland navigation GGVBinsch/ADNR****14.3 Transport by sea GGVSee/IMDG-Code**

Valuation.....: Not regulated for transport

Marine Pollutant.....: no

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

Valuation.....: Not regulated for transport

**14.5 Transport/further information****Postal and courier service:**

German postal dispatch.....: permitted

**Informing dept. ref. to heading 14. Transport information:**

Department MW-G (Gefahrgut-Service), Telefax: +49/(0) 8677/83-5589, Telephone: +49/(0) 8677/83-4950

**15 Regulatory information****15.1 Warning Label (EU)**

R-Phrase	Description
R-	-

S-Phrase	Description
S-	-

**Special identification instructions:** Safety data sheet available for professional user on request.

**15.2 National regulations:**

SI 1999/3232:	CHIP Regulations 1999
SI 1999/437:	COSHH Regulations 1999
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.	

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**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.

<b>n.a. = not applicable</b>	<b>n.s. = not subject to</b>
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**Details of international registration status**

Listed on the following inventories:

- IECSC
- PICCS
- ECL
- TSCA
- ENCS
- EINECS
- AICS
- DSL