

Safety Data Sheet (91/155/EEC)**ELASTOSIL E41**

Version: 2.0 (AUS)

Date of print: 03.03.2006

Date of last alteration: 24.10.2005

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC**1 Identification of the substance/preparation and company****1.1 Name of substance/preparation**

Commercial product name: ELASTOSIL E41

1.2 Use of substance / preparation:Industrial.
Raw material for: elastomer products.**1.3 Company name**Manufacturer: Wacker Chemie AG
Street/POB-No.: Hanns-Seidel-Platz 4
State/postal code/city: D 81737 Munchen
Telephone: +498962790
Telefax: +498962791770**1.4 Company name**Distributor: Wacker Chemie AG
Careof 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**1.5 Australian Emergency Telephone Number:**

Emergency Information: Regulatory Compliance Manager +61 3 9541 8900

Emergency Information (24 Hours): ADT Security - +61 3 9808 7363
Wacker Chemical Spills**2 Composition/information on ingredients****2.1 Chemical characterization (preparation):****Chemical characteristics**

Polydimethylsiloxane + fillers + auxiliary + acetoxysilane cross-linker in toluene

2.2 Hazardous ingredients:

EC-No.	CAS No.	Material	Content %		Warning Label (EU)	
			from	until	Symbol	R-Phrases
203-625-9	108-88-3	Toluene	>=12,5		F, Xn	11-38-48/20-63-65-67
224-221-9	4253-34-3	Triacetoxymethylsilane		<5,0	C	14-22-34

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.

Safety Data Sheet (91/155/EEC)**ELASTOSIL E41**

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3 Hazards identification

3.0 This chemical is classified as Hazardous according to the criteria of NOHSC.
This chemical is classified as a Dangerous Good.

3.1 Classification:

R-Phrase	Description
R11	Highly flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R67	Vapours may cause drowsiness and dizziness.

4 First-aid measures**4.1 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.

4.2 After inhalation:

Provide fresh air.

4.3 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).

4.4 After contact with the eyes:

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

4.5 After swallowing:

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

4.6 Advice for the physician:

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 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:

Heavy soot formation during combustion. 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. 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.

Safety Data Sheet (91/155/EEC)**ELASTOSIL E41**

Version: 2.0 (AUS)

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6.3 Methods for 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.

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

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:**

-

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

8 Exposure controls and personal protection equipment**8.1 Exposure limits****Maximum airborne concentrations at the workplace:**

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³
108-88-3	Toluene	TLV_GB	191,0	50,0		
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 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.

Safety Data Sheet (91/155/EEC)**ELASTOSIL E41**

Version: 2.0 (AUS)

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Date of last alteration: 24.10.2005

8.3 Further information for system design and engineering measures:

Observe information in section 7.

9 Physical and chemical properties**9.1 General information**

Physical state / form.....: liquid
Colour.....: transparent
Odour.....: strong

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.....: 111 °C at 1013 hPa
Flash point.....: 15 °C (DIN 53213)
Ignition temperature: approx. 540 °C (DIN 51794)
Lower explosion limit (LEL).....: 1,2 %(V)
Upper explosion limit (UEL).....: 7 %(V)
Vapour pressure.....: 29 hPa at 20 °C
Density.....: approx. 1,06 g/cm³ at 20 °C (DIN 53479)
Water solubility / miscibility.....: virtually insoluble
pH-Value.....: not applicable
Viscosity (dynamic).....: approx. 75000 mPa*s at 23 °C

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.....: not applicable

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:

none known

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:**

Product not investigated. Note indications of danger and safety advice (R- and S-phrases) in section 15.

11.1 Toxicological tests**Further information:**

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11.2 Experience with man:

-

11.3 Further toxicological information:

Classification based on ingredients: Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Vapours may cause drowsiness and dizziness. Product(s) of hydrolysis: In contact with dampness

Safety Data Sheet (91/155/EEC)**ELASTOSIL E41**

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product separates a small quantity of acetic acid (64-19-7) which irritates skin and mucous membranes.

12 Ecological information**12.1 Ecotoxicity**

Harmful effects to aquatic organisms cannot be excluded.

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

Do not introduce large amounts into purification plants.

12.2 Mobility

-

12.3 Persistence and degradability

Biodegradation / further information:

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

Further information:

-

12.4 Bio-accumulation potential

Bioaccumulation is not expected to occur.

12.5 Other harmful effects

-

12.6 Additional information

General information:

Prevent material from entering surface waters and soil.

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 by incineration in an approved facility. 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.

13.3 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 Transport information**14.1 Land transport GGVSE/ADR and RID**

Road ADR:

Valuation.....: Hazardous product

Class.....: 3

Packaging Group.....: II

Hazard No.: 33

UN no.: 1993

Proper Shipping Name.....: Entzündbarer flüssiger Stoff, n.a.g.

Safety Data Sheet (91/155/EEC)**ELASTOSIL E41**

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Technical name.....: (Enthält Toluol und n-Propanol)
 Wacker-Transport emergency card.....: 341

Railway RID:

Valuation.....: Hazardous product
 Class.....: 3
 Packaging Group.....: II
 UN no.: 1993

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

Valuation.....: Hazardous product
 Class.....: 3
 Packaging Group.....: II
 UN no.: 1993
 Proper Shipping Name.....: Flammable liquid, n.o.s.
 Technical name.....: (contains toluene and n-propanol)
 Marine Pollutant.....: no

14.4 Air transport ICAO-TI/IATA-DGR

Valuation.....: Hazardous product
 Class.....: 3
 Packaging Group.....: II
 UN no.: 1993
 Proper Shipping Name.....: Flammable liquid, n.o.s.
 Technical name.....: (contains toluene and n-propanol)



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

German postal dispatch.....: 1000 ccm per container / 3000 ccm per package

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)**

	F	Highly flammable
	Xn	Harmful

R-Phrase	Description
R11	Highly flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R67	Vapours may cause drowsiness and dizziness.

S-Phrase	Description
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S33	Take precautionary measures against static discharges.
S36/37	Wear suitable protective clothing and gloves.

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Hazard ingredients (labelling EU):

CAS No.	Material	Hazard symbols	Risk phrases (EU)
108-88-3	Toluene	F, Xn	11-38-48/20-63-65-67

15.2 National 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 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

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.

n.a. = not applicable	n.s. = not subject to
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Details of international registration status

Listed on the following inventories:

HSNO
ENCS
IECSC
TSCA
PICCS
EINECS
ECL
DSL
AICS