

Material Safety Data Sheet

Material: 60008053

ELASTOSIL® E41 TRANSPARENT

Version: 1.3 (CA)

Date of print: 03/31/2015

Date of last alteration: 09/11/2013

1. Product and company identification**1.1 Identification of the substance or preparation:**

Commercial product name: ELASTOSIL® E41 TRANSPARENT
Use of substance / preparation: Industrial.
Adhesive / sealant .

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München
Germany

Customer information: Wacker Chemical Corporation
3301 Sutton Road
Adrian, Michigan 49221-9397
USA
InfoLine:
Tel (517) 264-8240, Fax (517) 264-8740
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wacker.com

Emergency telephone no. (24h): (517) 264-8500
Transportation emergency: (800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)

This MSDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2. Composition/information on ingredients**2.1 Chemical characterization (preparation)**

Chemical characteristics
Polydimethylsiloxane + auxiliary + silane + solvent

2.2 Information on ingredients:

| Type | CAS No. | Substance | Content [wt. %] | | Note |
|------|-----------|-------------------------------|-----------------|-------|------|
| | | | Lower | Upper | |
| INHA | 108-88-3 | Toluene | 10.0 | 30.0 | R |
| VERU | 556-67-2 | Octamethyl cyclotetrasiloxane | 0.1 | <1.0 | R |
| INHA | 4253-34-3 | Triacetoxymethylsilane | 1.0 | 5.0 | |

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

Due to the physical nature of this material (liquid), exposure to dusts/particulates is not expected.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

3. Hazards identification**3.1 Hazards classifications****HMIS® rating (product as packaged):**

Health: 2* Fire: 3 Reactivity: 1 PPE: H

Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.) Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

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Canadian WHMIS Classification: B2, D2A, D2B

3.2 Emergency overview and potential hazards

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Signal Word:
WARNING

Physical Hazards:
Flammable liquid and vapor.

Acute health effects

Route of entry or possible contact:

eyes , skin , inhalation , ingestion

Eye contact:

Causes eye irritation.

Skin contact:

Causes skin irritation. May cause defatting of the skin. May be absorbed through skin.

Inhalation:

May cause respiratory tract irritation. At higher aerosol/vapor concentrations: May cause damage to lungs if inhaled. Inhalation causes central nervous system effects and possible death.

Ingestion:

Ingestion is not expected in industrial use. Small amounts of the liquid aspirated into the respiratory tract during ingestion or vomiting may cause inflammation of the lungs. May be harmful if swallowed.

Additional information on acute health effects:

This material releases acetic acid upon moisture curing. Upon completion of the curing process, acetic acid will no longer be released. Acetic acid is moderately toxic by ingestion and inhalation. Dilute acetic acid is however, approved for food use. Acetic acid is a severe skin, eye and mucous membrane irritant. Skin sensitization is rare but has been reported. Chronic exposure can cause bronchitis and pharyngeal edema. Acetic acid may cause burns upon prolonged or repeated contact. The health hazard evaluation is based on test results and/or on known properties of ingredients. The toxicological evaluation is based on analogy to a similar product. This material can enter the lungs during swallowing or vomiting & cause lung inflammation and/or damage (aspiration hazard).

3.3 Further information:

Chronic health effects:

Prolonged or repeated contact with skin may cause: dermatitis . Possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Impurity: Prolonged or repeated inhalation of vapors may have adverse effects on the reproductive system, based on animal testing of a component of this material.

Medical conditions which may be aggravated by exposure:

Persons with pre-existing skin disorders or impaired liver or kidney functions may be more susceptible to the effects of toluene. Alcoholic beverage can enhance the toxic effects.

Target organs affected:

Liver, kidneys, female reproductive system, blood and blood producing organs (spleen, bone marrow, etc.).

Signs and Symptoms of Exposure:

Refer to Acute Health Effects, listed above.

Carcinogens/Reproductive toxins:

Based on animal tests. This material contains $\geq 0.1\%$ of a substance which significantly increased the incidence of benign tumors in animal experiments. This material contains $\geq 1\%$ of a known reproductive toxin. Investigations of the mechanism of tumor formation are ongoing to evaluate the relevance to humans. Although animal testing has indicated that there is some limited carcinogenic potential for decamethylcyclpentasiloxane (D5) in rats, D5 has not been classified by IARC, NTP or OSHA as a known or potential human carcinogen. Further studies are ongoing to clarify the carcinogenic potential of D5 and the relevance to humans. Toluene has been identified as being a developmental reproductive toxin based on the results of animal studies.

See Section 11 for Toxicological Information, if any.

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

Get medical attention immediately. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

4.2 After inhalation

If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

4.3 After contact with the skin

For skin contact, immediately wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

4.4 After contact with the eyes

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

4.5 After swallowing

For Ingestion, do not attempt to induce vomiting. If conscious, have them rinse their mouth with water but do not give anything to drink. Danger of aspiration. Get medical attention immediately. Show label if possible.

5. Fire-fighting measures**5.1 Flammable properties:**

| Property: | Value: | Method: |
|---|-----------------------------|-------------|
| Flash point..... | 6 °C (42 °F) | (DIN 53213) |
| Boiling point / boiling range | 111 °C (231 °F) at 1013 hPa | |
| Lower explosion limit (LEL) | 1.2 %(V) | |
| Upper explosion limit (UEL)..... | 7.0 %(V) | |
| Ignition temperature | approx. 540 °C (1,004 °F) | (DIN 51794) |
| NFPA Hazard Class (comb./flam.liquid) | IB | |

5.2 Fire and explosion hazards:

Flammable liquid and vapor. Vapors are heavier than air and may travel along the ground, be moved by ventilation systems, settle in pits or low areas, and be ignited by ignition sources distant from the handling point. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur.

5.3 Recommended extinguishing media:

AFFF alcohol compatible foam. Carbon dioxide. Dry chemical. Water may be used to cool tanks and structures adjacent to the fire.

5.4 Unsuitable extinguishing media:

Water may be ineffective in controlling fires of this material. Do not use water to fight these fires.

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

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

5.6 Fire fighting procedures:

Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

6. Accidental release measures**6.1 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.

HAZWOPER PPE Level: C

6.2 Containment:

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.

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Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

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. 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 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 (32 °F)

8. Exposure controls and personal protection**8.1 Engineering controls****Ventilation:**

General ventilation sufficient to provide 1 CFM per square foot of floor area or 6 room air exchanges per hour is recommended.

Local exhaust:

To control flammable/combustible vapors: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use. (to maintain concentration below TLV)

8.2 Associate substances with specific control parameters such as limit values**Maximum airborne concentrations at the workplace:**

| CAS No. | Material | Type | mg/m ³ | ppm | Dust fract. |
|----------|-------------|-----------|-------------------|-------|-------------|
| 108-88-3 | Toluene | OSHA PEL | | 200.0 | |
| 64-19-7 | Acetic acid | OSHA PEL | 25.0 | 10.0 | |
| 108-88-3 | Toluene | ACGIH TWA | | 50.0 | |
| 64-19-7 | Acetic acid | ACGIH TWA | | 10.0 | |

Re Toluene (CAS-no. 108-88-3): skin notation, carcinogenicity: A5 (ACGIH); ceiling is 300 ppm, maximum peak is 500 ppm for a duration of 10 minutes (OSHA Table Z-2).

Re Acetic acid (CAS-no. 64-19-7): STEL is 15 ppm (ACGIH).

8.3 Personal protection equipment (PPE)**Respiratory protection:**

Recommendation in case of long or strong exposure: A NIOSH approved air purifying respirator equipped with universal multi-contaminant multi-gas/vapor cartridges is recommended if overexposure to chemical vapors could occur. If eye-irritating dusts or vapors are present, a full-face respirator should be worn.

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Hand protection:

Viton rubber or Silvershield / 4H laminate gloves

Eye protection:

Safety glasses with side shields or chemical safety goggles. Additional eye and face protection, splash-proof goggles, hood, full-faced respirator, or face shield is recommended if splashing could occur.

Other protective clothing or equipment:

Additional skin protection, such as SARANEX coated Tyvek apron, over-sleeves, lab coat, coveralls, or protective suit should be worn if splashing could occur. Provide eye bath and safety shower.

8.4 General hygiene and protection measures:

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

9. Physical and chemical properties**9.1 Appearance**

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

9.2 Safety parameters

| Property: | Value: | Method: |
|-------------------------------------|--|--------------|
| Melting point / melting range | not applicable | |
| Boiling point / boiling range | 111 °C (231 °F) at 1013 hPa | |
| Flash point..... | 6 °C (42 °F) | (DIN 53213) |
| Ignition temperature | approx. 540 °C (1,004 °F) | (DIN 51794) |
| Lower explosion limit (LEL) | 1.2 %(V) | |
| Upper explosion limit (UEL)..... | 7.0 %(V) | |
| Vapour pressure..... | 29 hPa at 20 °C (68 °F) | |
| Density | 1.078 g/cm ³ at 23 °C (73 °F) | (DIN 53217) |
| Water solubility / miscibility..... | virtually insoluble | |
| pH-Value | not applicable | |
| Viscosity (dynamic) | 65000 mPa.s at 23 °C (73 °F) | (BROOKFIELD) |

9.3 Further 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).

| | | |
|--------------------------------|----------------|--------------------|
| VOC | 148.6 g/l | (calculated value) |
| VOC Released During Cure | 44.1 g/l | (Estimated Value) |
| Thermal decomposition..... | not applicable | |

10. Stability and reactivity**10.1 General information:**

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

10.2 Conditions to avoid

none known

10.3 Materials to avoid

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

10.4 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.

10.5 Further information:

Hazardous polymerization cannot occur.

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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.

Toxicological testing has not been conducted with this material. The toxicology information listed below is based on the components of the material.

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): > 2000 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**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 |
|---------------|---------------------|------------------|
| irritating | rabbit | ECHA OECD 404 |

11.1.4 Serious eye damage / eye irritation**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 |
|----------------|---------------------|------------------|
| 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 |

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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.

Data related to ingredients:**Toluene:**

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:**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:

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Toluene:

Product can pose an aspiration hazard.

11.1.12 Further toxicological information

Toxicity to reproduction/fertility: Impurity: In a two generation reproductive study via inhalation with OMCTS/D4 rats, decreased mean live litter size and prolonged labor (dystocia) were observed at the 500 ppm and 700 ppm exposure levels. The relevance of these effects in humans cannot be determined at this time. Because these effects are only seen at very high exposure levels, it is unlikely that industrial, commercial and/or consumer uses of products containing OMCTS/D4 would result in a significant risk to humans. Based on animal experiments there is no indication of developmental effects.

Chronic toxicity / carcinogenicity: Impurity: In a two year combined chronic toxicity and carcinogenicity inhalation study with octamethylcyclotetrasiloxane (OMCTS/D4) in rats, an increased incidence of (uterine) endometrial cell hyperplasia and endometrial adenomas were observed at the highest exposure level of 700 ppm in female rats. These same effects were not seen at the other dose levels of 10, 30, and 150 ppm. Since these effects only occurred at 700 ppm, a level that greatly exceeds typical workplace or consumer exposure, it is unlikely that industrial, commercial or consumer uses of products containing OMCTS/D4 would result in a significant risk to humans. In a two year combined chronic toxicity and carcinogenicity inhalation study with decamethylcyclopentasiloxane (D5) in rats, an increased incidence for (uterine) endometrial tumors was observed in the highest exposure level of 160 ppm in female rats. The same effects were not seen at the other dose levels of 10 and 40 ppm. Whether or not this increase in incidence is truly related to the exposure to D5 is questionable and yet to be determined. Based on our present knowledge it is unlikely that industrial, commercial or consumer uses of products containing D5 would result in a significant risk to humans.

Other information: In contact with dampness product separates acetic acid (64-19-7) which irritates skin and mucous membranes.

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. Elimination by adsorption to activated sludge.

Data related to ingredients:**Toluene:**

Biologisk let nedbryelig.

12.3 Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur.

12.4 Mobility in soil**Assessment:**

No data known.

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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.

13. Disposal considerations**13.1 RCRA Waste Classification:**

D001 (Ignitable)

This classification applies only to the material as it was originally produced.

13.2 Product disposal

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.

13.3 Packaging disposal

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 US DOT & CANADA TDG SURFACE**

Valuation: Dangerous Goods
Proper Shipping Name: Flammable liquid, n.o.s.
Technical name: (contains toluene and n-propanol)
Class: 3
UN no.: 1993
Packaging Group: II
Label: **TL:flammable liquid/3
NAERG Guide: 130

14.2 Transport by sea IMDG-Code

Valuation: Dangerous Goods
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

14.3 Air transport ICAO-TI/IATA-DGR

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

15. Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

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TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals:

| CAS No. | Chemical | RQ | Upper limit wt. % |
|----------|----------|-----------|-------------------|
| 108-88-3 | Toluene | 1,000 lbs | <15.0075 |

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

Fire hazard. Immediate (acute) health hazard. Delayed (chronic) health hazard.

SARA 313 Chemicals:

| CAS No. | Chemical | Upper limit wt. % |
|----------|----------|-------------------|
| 108-88-3 | Toluene | <15.0075 |

SARA 313 information included on this MSDS should be included in all MSDSs that are copied from and distributed for this material.

HAPS (Hazardous Air Pollutants):108-88-3 Toluene
71-43-2 Benzene**15.2 U.S. State regulations****California Proposition 65 Carcinogens:**

71-43-2 Benzene

California Proposition 65 Reproductive Toxins:108-88-3 Toluene
71-43-2 Benzene**Massachusetts Substance List:**112945-52-5 Silica, amorphous, fumed
108-88-3 Toluene**New Jersey Right-to-Know Hazardous Substance List:**112945-52-5 Silica, amorphous, fumed
108-88-3 Toluene**Pennsylvania Right-to-Know Hazardous Substance List:**112945-52-5 Silica, amorphous, fumed
108-88-3 Toluene**15.3 Canadian regulations**

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes:

B2, D2A, D2B

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List.

Canadian Ingredient Disclosure List:112945-52-5 Silica, amorphous, fumed
108-88-3 Toluene**15.4 Other international regulations****Details of international registration status**

Listed on or in accordance with the following inventories:

EINECS - Europe
ECL - Korea
ENCS - Japan
AICS - Australia
IECSC - China
DSL - Canada

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PICCS - Philippines
TSCA - USA**16. Other information****16.1 Additional information:**

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

All deliveries are subject to the WACKER SILICONES Health Care Policy, which is available at www.wacker.com.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists
DOT - Department of Transportation
hPa - Hectopascals
mPa*s - Milli Pascal-Seconds
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit

ppm - Parts per Million
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
WHMIS - Canadian Workplace Hazardous Materials Identification System

| Flash point determination methods | Common name |
|--|-------------------------------|
| ASTM D56..... | Tagliabue (Tag) closed cup |
| ASTM D92, DIN 51376, ISO 2592 | Cleveland open cup |
| ASTM D93, DIN 51758, ISO 2719 | Pensky-Martens closed cup |
| ASTM D3278, DIN 55680, ISO 3679 | Setaflash or Rapid closed cup |
| DIN 51755 | Abel-Pensky closed cup |

16.3 Conversion table:

Pressure:.....: 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa
Viscosity:.....: 1 mPa*s = 1 centipoise (cP)