Material Safety Data Sheets

Dear Sir or Madam:

Attached please find Material Safety Data Sheets (MSDSs) for products you have received (or will receive). These MSDSs also may have been sent in response to your request for the documents.

Please review these MSDSs carefully and use them to update your MSDS files as required by the OSHA Hazard Communication Standard (Worker's "Right-to-Know" Law) or applicable worker right to know laws in your country.

Thank you for your interest in our products; we appreciate your business.

Unless a different dispatch address has been indicated, documents will be sent to the goods delivery address.

MSDSs for the following materials are enclosed:

10001691 ELASTOSIL M4643A SAMPLE
10001692 ELASTOSIL M4643B SAMPLE

Yours sincerely

Wacker Chemical Corporation
Material Safety Data Sheet

**Material:** 10001691 ELASTOSIL M4643A SAMPLE

Version: 1.4 (US) Date of print: 01/25/2006 Date of last alteration: 11/26/2003

1 Product and company identification

1.1 Identification of the substance or preparation:

**Commercial product name:** ELASTOSIL M4643A SAMPLE

**Use of substance / preparation:** Industrial.

Raw material for: elastomer products.

1.2 Company/undertaking identification:

**Manufacturer/distributor:** Wacker Chemical Corporation

3301 Sutton Road
Adrian, MI 49221-9397
USA

**Customer information:**

Customer Care Center:
Tel (517) 264-8240, Fax (517) 264-8740

Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)

Corporate website www.wackersilicones.com

**Emergency telephone no. (24h):**

- (517) 264-8500
- (800) 424-9300 (CHEMTREC, USA)
- (703) 527-3887 (CHEMTREC, international)
- (613) 996-6666 (CANUTEC, Canada)

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 with functional groups + auxiliaries for addition cross-linking

2.2 Information on ingredients:

<table>
<thead>
<tr>
<th>Type</th>
<th>CAS No.</th>
<th>Substance</th>
<th>Content [wt. %]</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lower</td>
<td>Upper</td>
</tr>
<tr>
<td>INHA</td>
<td>70900-21-9</td>
<td>Polydimethylsiloxane hydrogen terminated</td>
<td>10.0</td>
<td>30.0</td>
</tr>
<tr>
<td>INHA</td>
<td>68037-59-2</td>
<td>Polydimethylhydrogenmethyl siloxane</td>
<td>1.0</td>
<td>5.0</td>
</tr>
<tr>
<td>NEBE</td>
<td>1333-74-0</td>
<td>hydrogen gas</td>
<td>varies</td>
<td>varies</td>
</tr>
</tbody>
</table>

**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.

This material does not contain any OSHA or WHMIS reportable hazardous ingredients. Due to the physical nature of this material, exposure to hazardous ingredients is not anticipated.

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% or they are inextricably bound in the product.

3 Hazards identification

3.1 Hazards classifications

**HMIS® rating (product as packaged):**

- Health: 1
- Fire: 1
- Reactivity: 2
- PPE: B

Page: 1/7
Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)

Canadian WHMIS Classification: None.

3.2 Emergency overview and potential hazards
This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards:
Under certain conditions this material may generate flammable hydrogen gas.

Acute health effects
Route of entry or possible contact:
eyes, skin, ingestion
Eye contact:
May cause slight eye irritation.
Skin contact:
No acute toxic effects are expected.
Inhalation:
Inhalation is not expected due to low vapor pressure.
Ingestion:
Not expected in industrial use.

Additional information on acute health effects:
The health hazard evaluation is based on test results and/or on known properties of ingredients.

3 Further information:
Chronic health effects:
This material contains crystalline silica. However, due to the physical nature of this material inhalation of silica dust is not possible. No known or expected chronic health effects.

Medical conditions which may be aggravated by exposure:
unknown

Carcinogens/Reproductive toxins:
This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels. This material does not contain any reportable carcinogenic ingredients. Exposure to carcinogens cannot occur under normal conditions of use or during foreseeable emergencies.

See Section 11 for Toxicological Information, if any.

4 First-aid measures

4.1 General information:
In cases of sickness seek medical advice (show label if possible).

4.2 After inhalation:
No special measures required.

4.3 After contact with the skin:
Remove material with a waterless skin cleaner from skin and clothing. Wash then with plenty of water or water and soap.

4.4 After contact with the eyes:
If contact with eyes, immediately hold eyelids apart and flush with plenty of water. Get medical attention if irritation occurs.

4.5 After swallowing:
No special measures required. Get medical attention if symptoms occur. Show label if possible.

5 Fire-fighting measures

1 Flammable properties:
Flash point: > 262 °C (> 503 °F) (ISO 2592)
Boiling point / boiling range: not applicable
Lower explosion limit (LEL): not applicable
Upper explosion limit (UEL): not applicable
Autoignition temperature: > 450 °C (> 842 °F) (DIN 51794)
5.2 Fire and explosion hazards:
Caution! This product is not flammable but it may evolve flammable hydrogen gas under certain
conditions, which may accumulate in the container headspace. Do not use a welding or cutting
torch on or near any container of this material, even if empty, because an explosion could
occur. Spontaneous ignition is possible due to electrostatic discharge. The generation of
hydrogen gas is increased under circumstances mentioned in Sect. 10 "Stability and reactivity".
Contact with contaminated piping or vessels or with corroded and rusty containers can increase
the rate of hydrogen formation. Explosion limits for hydrolysis product: 4-75.6% v/v (hydrogen).

5.3 Recommended extinguishing media:
carbon dioxide, alcohol-resistant foam, dry sand.

5.4 Unsuitable extinguishing media:
water, dry chemical, halones.

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products,
resulting gases:
Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon
dioxide and incompletely burnt hydrocarbons.

5.6 Fire fighting procedures:
Fire fighters should wear full protective clothing including a self-contained breathing
apparatus.

6 Accidental release measures

6.1 Precautions:
No special measures required.

HAZWOPER PPE Level: D

6.2 Containment:
Prevent material from entering surface waters, drains or sewers and open soil.
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:
Take up mechanically and dispose of according to local/state/federal regulations. Clean any
slippery coating that remains using a detergent / soap solution or another biodegradable
cleaner.

6.4 Further information:
Eliminate all sources of ignition. Do not seal collecting vessel gas-tight. Observe notes under
section 7.

7 Handling and storage

7.1 Handling
Precautions for safe handling:
Open and handle container with care. Ensure adequate ventilation. Keep away from incompatible
substances in accordance with section 10.2.
Precautions against fire and explosion:
Product can release hydrogen. In partly emptied containers formation of explosive mixtures is
possible. Keep away from sources of ignition and do not smoke. Keep away from open flames, heat
and sparks. Take precautionary measures against electrostatic charging.

7.2 Storage
Conditions for storage rooms and vessels:
one known
Advice for storage of incompatible materials:
Keep away from alkalis.
Further information for storage:
Protect against moisture. Store in original container only. Keep container tightly closed and
store in a well-ventilated place.
Maximum temperature allowed during storage and transportation: 30 °C (86 °F)
8 Exposure controls and personal protection

8.1 Engineering controls
Ventilation:
Use only with adequate ventilation.
Local exhaust:
yes

8.2 Associate substances with specific control parameters such as limit values
none known.

8.3 Personal protection equipment (PPE)
Respiratory protection:
not necessary
Hand protection:
Recommendation: butyl rubber protective gloves, nitrile rubber protective gloves.
Eye protection:
chemical safety goggles.
Other protective clothing or equipment:
Recommendation: antistatic clothing and shoes.

8.4 General hygiene and protection measures:
Do not eat, drink or smoke when handling. Wash thoroughly after handling.

9 Physical and chemical properties

9.1 Appearance
Physical state / form: paste
Colour: white
Odour: slight

9.2 Safety parameters
Boiling point / boiling range: not applicable
Flash point: > 262 °C (> 503 °F) (ISO 2592)
Autoignition temperature: > 450 °C (> 842 °F) (DIN 51794)
Lower explosion limit (LEL): not applicable
Upper explosion limit (UEL): not applicable
Density: approx. 1.41 g/cm3 at 25 °C (77 °F), at 1013 hPa
Water solubility / miscibility: virtually insoluble at 20 °C (68 °F)
Ph-Value: not applicable
Viscosity (dynamic): approx. 60000. mPa*s at 23 °C (73 °F) (BROOKFIELD)

9.3 Further information
Explosion limits for released hydrogen: 4 - 75.6% (V).
Thermal decomposition: > 200 °C (> 392 °F)

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: alkalis, amines, strong acids, oxidizing agents. Reaction causes the formation of: hydrogen.

10.3 Hazardous decomposition products:
hydrogen. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.4 Further information:
Hazardous polymerization cannot occur.
Material Safety Data Sheet

Material: 10001691 ELASTOSIL M4643A SAMPLE

Version: 1.4 (US) Date of print: 01/25/2006 Date of last alteration: 11/26/2003

11 Toxicological information

11.1 General information:
Toxicological testing has not been conducted with this material.

12 Ecological information

12.1 Information on elimination (persistence and degradability)

Biodegradation / further information:
Biologically not degradable.

Further information:
Separation by sedimentation.

12.2 Behaviour in environmental compartments

Mobility
Insoluble in water.

Further information:
Bioaccumulation is not expected to occur.

12.3 Ecotoxicological effects:
No expected damaging effects to water organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):
According to current knowledge adverse effects on water purification plants are not expected.

12.4 Further ecological information

Other harmful effects
none known

General information:
No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13 Disposal considerations

13.1 Product disposal
Recommendation:
Danger of oxyhydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10.2. Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Packaging disposal
Recommendation:
Containers may contain hazardous quantities of hydrogen gas. 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...............: Not regulated for transport

14.2 Transport by sea IMDG-Code
Valuation...............: Not regulated for transport
Marine Pollutant...........: no

14.3 Air transport ICAO-TI/IATA-DGR
Valuation...............: Not regulated for transport
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.

**TSCA 12(b) Export Notification:**
This material does not contain any TSCA 12(b) regulated chemicals.

**CERCLA Regulated Chemicals:**
This material does not contain any CERCLA regulated chemicals.

**SARA 302 EHS Chemicals:**
This material does not contain any SARA extremely hazardous substances.

**SARA 311/312 Hazard Class:**
This product does not present any SARA 311/312 hazards.

**SARA 313 Chemicals:**
This material does not contain any SARA 313 chemicals above de minimus levels.

**HAPS:**
This material does not contain any hazardous air pollutants.

15.2 U.S. State regulations

**California Proposition 65 Carcinogens:**
14808-60-7 Quartz

**California Proposition 65 Reproductive Toxins:**
This material does not contain any chemicals known to the state of California to cause reproductive effects.

**Massachusetts Substance List:**
14808-60-7 Quartz

**New Jersey Right-to-Know Hazardous Substance List:**
14808-60-7 Quartz

**Pennsylvania Right-to-Know Hazardous Substance List:**
14808-60-7 Quartz

15.3 Canadian regulations

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

**WHMIS Hazard Classes:**
None.

**DSL Status:**
This material or its components are listed on the Canadian Domestic Substances List.

**Non-DSL Chemicals:**
This material does not contain any non-DSL chemicals.

**Canadian Ingredient Disclosure List:**
14808-60-7 Quartz

15.4 Other international regulations

**EU Risk Phrases:**

<table>
<thead>
<tr>
<th>R-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-</td>
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</table>
Material Safety Data Sheet

Material: 10001691  ELASTOSIL M4643A  SAMPLE

Version: 1.4 (US)  Date of print: 01/25/2006  Date of last alteration: 11/26/2003

EU Safety Phrases:

<table>
<thead>
<tr>
<th>S-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Details of international registration status

Listed on the following inventories:
- EINECS - Europe
- IECSC - China
- PICCS - Philippines
- ENCS - Japan
- ECL - Korea
- AICS - Australia
- HSNO - New Zealand

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.

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

Flash point determination methods

- ASTM D56
- ASTM D92, DIN 51376, ISO 2592
- ASTM D93, DIN 51758, ISO 2719
- ASTM D3278, DIN 55680, ISO 3679
- DIN 51755

16.3 Conversion table:

Pressure:  \[ 1 \text{ hPa} \times 0.75 = 1 \text{ mm Hg} = 1 \text{ Torr}; 1 \text{ bar} = 1000 \text{ hPa} \]

Viscosity:  \[ 1 \text{ mPa}^*\text{s} = 1 \text{ Centipoise (Cp)} \]
Material: 10001692  
ELASTOSIL M4643B  
SAMPLE

1. Product and company identification

1.1 Identification of the substance or preparation:

Commercial product name:  
ELASTOSIL M4643B  
SAMPLE  
Use of substance / preparation:  
Industrial.  
Raw material for: elastomer products.

1.2 Company/undertaking identification:

Manufacturer/distributor:  
Wacker Chemical Corporation  
3301 Sutton Road  
Adrian, MI 49221-9397  
USA  
Customer information:  
Customer Care Center:  
Tel (517) 264-8240, Fax (517) 264-8740  
Hours of operation:  
Monday - Friday, 8 am to 5 pm (eastern standard time)  
Corporate website www.wackersilicones.com  
Emergency telephone no. (24h):  
(517) 264-8500  
Transportation emergency:  
(800) 424-9300 (CHEMTREC, USA)  
(703) 527-3887 (CHEMTREC, international)  
(613) 996-6666 (CANUTEC, Canada)  

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 with functional groups + auxiliaries for addition cross-linking

2.2 Information on ingredients:

This material does not contain any hazardous substances at or above OSHA and WHMIS reportable levels.

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: 1  
Fire: 1  
Reactivity: 0  
PPE: B  

Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)  
Canadian WHMIS Classification: None.

3.2 Emergency overview and potential hazards

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards:  
No known physical hazards.
Acute health effects
Route of entry or possible contact:
eyes, skin, ingestion
Eye contact:
May cause slight eye irritation.
Skin contact:
No acute toxic skin effects are expected.
Inhalation:
No acute toxic respiratory tract effects are expected. Inhalation is not expected due to low
vapor pressure or high viscosity.
Ingestion:
Ingestion is not expected in industrial use.
Additional information on acute health effects:
The health hazard evaluation is based on test results and/or on known properties of
ingredients. Due to the physical nature of this material (paste), exposure to
dusts/particulates is not expected.

3.3 Further information:
Chronic health effects:
No known or expected chronic health effects.
Medical conditions which may be aggravated by exposure:
one known
Target organs affected:
No known internal organ effects.
Signs and Symptoms of Exposure:
Refer to Acute Health Effects, listed above.
Carcinogens/Reproductive toxins:
This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable
levels. There are no carcinogenic ingredients present at or over 0.1% in this material.
See Section 11 for Toxicological Information, if any.

4 First-aid measures
4.1 General information:
Get medical attention if irritation or other symptoms occur. 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:
Material cannot be inhaled under normal conditions. No special measures required.
4.3 After contact with the skin:
For skin contact: Wipe off excess material with cloth or paper. 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:
After swallowing: No special treatment is required.

5 Fire-fighting measures
5.1 Flammable properties:
Flash point: > 284 °C (> 543 °F) Method (ISO 2592)
Boiling point / boiling range: not applicable
Lower explosion limit (LEL): not applicable
Upper explosion limit (UEL): not applicable
Ignition temperature: > 450 °C (> 842 °F) (DIN 51794)

2 Fire and explosion hazards:
This material does not present any unusual fire or explosion hazards.

3.3 Recommended extinguishing media:
water-spray, dry chemical, alcohol-resistant foam, carbon dioxide, sand.

5.4 Unsuitable extinguishing media:
water jet
5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide and incompletely burnt hydrocarbons.

5.6 Fire fighting procedures: Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

6 Accidental release measures

6.1 Precautions: No special measures required. HAZWOPER PPE Level: D

6.2 Containment: Prevent material from entering sewers or surface waters. 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: Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

7 Handling and storage

7.1 Handling
Precautions for safe handling: No special protective measures required.
Precautions against fire and explosion: No special precautions against fire and explosion required.

7.2 Storage
Conditions for storage rooms and vessels: none known
Advice for storage of incompatible materials: not applicable
Further information for storage: Keep container tightly closed. Store in a dry and cool place.
Maximum temperature allowed during storage and transportation: 30 °C (86 °F)

8 Exposure controls and personal protection

8.1 Engineering controls
Ventilation: Use with adequate ventilation.
Local exhaust: not necessary

8.2 Associate substances with specific control parameters such as limit values
none known

8.3 Personal protection equipment (PPE)
Respiratory protection: Respiratory protection is not normally required.
Hand protection: Recommendation: Any liquid-tight rubber or vinyl gloves.
Eye protection: Recommendation: Safety glasses with side shields.
Other protective clothing or equipment: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.
# Material Safety Data Sheet

**Material:** 10001692  
**ELASTOSIL M4643B**  
**SAMPLE**

- **Version:** 1.7 (US)  
- **Date of print:** 01/25/2006  
- **Date of last alteration:** 08/17/2005

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### 8.4 General hygiene and protection measures:
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: paste
- Colour: dark grey
- Odour: slight

#### 9.2 Safety parameters

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point / melting range</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 284 °C (&gt; 543 °F)</td>
<td>(ISO 2592)</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>&gt; 450 °C (&gt; 842 °F)</td>
<td>(DIN 51794)</td>
</tr>
<tr>
<td>Lower explosion limit (LEL)</td>
<td>not applicable</td>
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</tr>
<tr>
<td>Upper explosion limit (UEL)</td>
<td>not applicable</td>
<td></td>
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<tr>
<td>Vapour pressure</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>approx. 0.99 g/cm³ at 25 °C (77 °F), at 1013 hPa</td>
<td>(-)</td>
</tr>
<tr>
<td>Water solubility / miscibility</td>
<td>virtually insoluble at 20 °C (68 °F)</td>
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</tr>
<tr>
<td>pH-Value</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Viscosity (dynamic)</td>
<td>approx. 700 mPa*s at 23 °C (73 °F)</td>
<td>(BROOKFIELD)</td>
</tr>
</tbody>
</table>

#### 9.3 Further information
- Thermal decomposition: > 200 °C (> 392 °F)

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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:
none known

#### 10.2 Materials to avoid:
none known

#### 10.3 Hazardous decomposition products:
If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

#### 10.4 Further information:
Hazardous polymerization cannot occur.

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### 11 Toxicological information

#### 11.1 General information:
Toxicological testing has not been conducted with this material.

#### 11.2 Toxicological data:
- Experience with man:
  - -

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### 12 Ecological information

#### 12.1 Information on elimination (persistence and degradability)

- **Biodegradation / further information:** Biologically not degradable.
- **Further information:** Separation by sedimentation.
12.2 Behaviour in environmental compartments

Mobility
Insoluble in water.

Further information:
Bioaccumulation is not expected to occur.

12.3 Ecotoxicological effects:
Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):
According to current knowledge adverse effects on water purification plants are not expected.

12.4 Additional information

Other harmful effects
none known

General information:
No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13 Disposal considerations

13.1 Product disposal
Recommendation:
Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

13.2 Packaging disposal
Recommendation:
Containers should be completely emptied before recycling as specified in government regulations. Empty containers should be sent to an approved recycling facility.

14 Transport information

14.1 US DOT & CANADA TDG SURFACE
Valuation: Not regulated for transport

14.2 Transport by sea IMDG-Code
Valuation: Not regulated for transport
Marine Pollutant: no

14.3 Air transport ICAO-TI/IATA-DGR
Valuation: Not regulated for transport

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.

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

CERCLA Regulated Chemicals:
This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:
This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:
This product does not present any SARA 311/312 hazards.
SARA 313 Chemicals:
This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):
1308-38-9 Chromium(III)-oxide

15.2 U.S. State regulations
California Proposition 65 Carcinogens:
This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:
This material does not contain any chemicals known to the state of California to cause reproductive effects.

Massachusetts Substance List:
This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List:
This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:
This material contains no listed components.

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:
None.

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

Non-DSL Chemicals:
This material does not contain any non-DSL chemicals.

Canadian Ingredient Disclosure List:
This material contains no listed components.

15.4 Other international regulations
EU Risk Phrases:

<table>
<thead>
<tr>
<th>R-Phrase</th>
<th>Description</th>
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<tbody>
<tr>
<td>R-</td>
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EU Safety Phrases:

<table>
<thead>
<tr>
<th>S-Phrase</th>
<th>Description</th>
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<tbody>
<tr>
<td>S-</td>
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</table>

Details of international registration status
Listed on the following inventories:
- EINECS - Europe
- IECSC - China
- PICCS - Philippines
- ENCS - Japan
- ECL - Korea
- AICS - Australia
- HSNO - New Zealand

16 Other information

6.1 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
Material Safety Data Sheet

Material: 10001692  ELASTOSIL M4643B  SAMPLE

Version: 1.7 (US)  Date of print: 01/25/2006  Date of last alteration: 08/17/2005

information required by the CFR. 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.

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
- TWA - Time Weighted Average
- WHMIS - Canadian Workplace Hazardous Materials Identification System

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

Conversion table:
- Pressure: 1 hPa * 0.75 = 1 mm Hg = 1 Torr; 1 bar = 1000 hPa
- Viscosity: 1 mPa*s = 1 Centipoise (Cp)