



# SAFETY DATA SHEET

DOW CHEMICAL COMPANY LIMITED

Safety Data Sheet according to Reg. (EU) No 2015/830

**Product name: DOWSIL™ 3-6385 Thermally Conductive  
Encapsulant Part A**

**Revision Date:** 16.01.2019

**Version:** 2.0

**Date of last issue:** 22.11.2017

**Print Date:** 17.01.2019

DOW CHEMICAL COMPANY LIMITED encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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### 1.1 Product identifier

**Product name:** DOWSIL™ 3-6385 Thermally Conductive Encapsulant Part A

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Electrical industry and electronics

### 1.3 Details of the supplier of the safety data sheet

#### COMPANY IDENTIFICATION

DOW CHEMICAL COMPANY LIMITED  
STATION ROAD, BIRCH VALE, HIGH PEAK  
DERBYSHIRE  
England  
SK22 1BR  
UNITED KINGDOM

#### Customer Information Number:

+44 (0) 1663 746518

SDSQuestion@dow.com

#### Fax:

+44 (0) 1663 746605

### 1.4 EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:** 0031 115 694 982

**Local Emergency Contact:** 00 31 115 69 4982

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## SECTION 2: HAZARDS IDENTIFICATION

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### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3 Other hazards

This product contains dodecamethylcyclotetrasiloxane (D6) that has been identified by the Member State Committee of ECHA as fulfilling the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006. See Section 12 for additional information.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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**Chemical nature:** Silicone elastomer

### 3.2 Mixtures

This product is a mixture.

| <b>CASRN /<br/>EC-No. /<br/>Index-No.</b> | <b>REACH<br/>Registration<br/>Number</b> | <b>Concentration</b> | <b>Component</b> | <b>Classification:<br/>REGULATION (EC) No<br/>1272/2008</b> |
|-------------------------------------------|------------------------------------------|----------------------|------------------|-------------------------------------------------------------|
|-------------------------------------------|------------------------------------------|----------------------|------------------|-------------------------------------------------------------|

PBT and vPvB substance

|                                                                                 |   |                  |                                    |                |
|---------------------------------------------------------------------------------|---|------------------|------------------------------------|----------------|
| <b>CASRN</b><br>540-97-6<br><b>EC-No.</b><br>208-762-8<br><b>Index-No.</b><br>— | — | >= 0.1 - < 1.0 % | Dodecamethyl<br>cyclotetrasiloxane | Not classified |
|---------------------------------------------------------------------------------|---|------------------|------------------------------------|----------------|

Substances with a workplace exposure limit

|                                                                                          |   |                    |                                                      |                |
|------------------------------------------------------------------------------------------|---|--------------------|------------------------------------------------------|----------------|
| <b>CASRN</b><br>Not available<br><b>EC-No.</b><br>Not available<br><b>Index-No.</b><br>— | — | >= 70.0 - < 80.0 % | Methyltrimethoxysil<br>ane treated<br>aluminum oxide | Not classified |
| <b>CASRN</b><br>1309-37-1<br><b>EC-No.</b><br>215-168-2<br><b>Index-No.</b><br>—         | — | >= 1.0 - < 10.0 %  | Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )         | Not classified |

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## SECTION 4: FIRST AID MEASURES

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### 4.1 Description of first aid measures

**General advice:**

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin contact:** Wash off with plenty of water.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** No emergency medical treatment necessary.

**4.2 Most important symptoms and effects, both acute and delayed:**

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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## **SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media**

**Suitable extinguishing media:** Water spray Alcohol-resistant foam Carbon dioxide (CO<sub>2</sub>) Dry chemical

**Unsuitable extinguishing media:** None known.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products:** Silicon oxides Carbon oxides Metal oxides Formaldehyde

**Unusual Fire and Explosion Hazards:** Exposure to combustion products may be a hazard to health.

**5.3 Advice for firefighters**

**Fire Fighting Procedures:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures:** Follow safe handling advice and personal protective equipment recommendations.

**6.2 Environmental precautions:** Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and materials for containment and cleaning up:** Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbant. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

**6.4 Reference to other sections:**

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: HANDLING AND STORAGE

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**7.1 Precautions for safe handling:** Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep in properly labelled containers. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents.  
Unsuitable materials for containers: None known.

**7.3 Specific end use(s):** See the technical data sheet on this product for further information.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**8.1 Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

| Component                                        | Regulation | Type of listing            | Value/Notation                  |
|--------------------------------------------------|------------|----------------------------|---------------------------------|
| Methyltrimethoxysilane<br>treated aluminum oxide | ACGIH      | TWA Respirable<br>fraction | 1 mg/m <sup>3</sup> , Aluminium |
|                                                  | GB EH40    | TWA inhalable dust         | 10 mg/m <sup>3</sup>            |
|                                                  | GB EH40    | TWA Respirable<br>dust     | 4 mg/m <sup>3</sup>             |
| Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )     | ACGIH      | TWA Respirable<br>fraction | 5 mg/m <sup>3</sup>             |
|                                                  | GB EH40    | TWA inhalable dust         | 10 mg/m <sup>3</sup>            |
|                                                  | GB EH40    | TWA Respirable<br>dust     | 4 mg/m <sup>3</sup>             |

**Derived No Effect Level**

Dodecamethyl cyclohexasiloxane

**Workers**

| Acute systemic effects |            | Acute local effects |                       | Long-term systemic effects |                      | Long-term local effects |                        |
|------------------------|------------|---------------------|-----------------------|----------------------------|----------------------|-------------------------|------------------------|
| Dermal                 | Inhalation | Dermal              | Inhalation            | Dermal                     | Inhalation           | Dermal                  | Inhalation             |
| n.a.                   | n.a.       | n.a.                | 6.1 mg/m <sup>3</sup> | n.a.                       | 11 mg/m <sup>3</sup> | n.a.                    | 1.22 mg/m <sup>3</sup> |

### Consumers

| Acute systemic effects |            |                  | Acute local effects |            | Long-term systemic effects |            |                  | Long-term local effects |            |
|------------------------|------------|------------------|---------------------|------------|----------------------------|------------|------------------|-------------------------|------------|
| Dermal                 | Inhalation | Oral             | Dermal              | Inhalation | Dermal                     | Inhalation | Oral             | Dermal                  | Inhalation |
| n.a.                   | n.a.       | 1.7 mg/kg bw/day | n.a.                | 1.5 mg/m3  | n.a.                       | 2.7 mg/m3  | 1.7 mg/kg bw/day | n.a.                    | 0.3 mg/m3  |

Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)

### Workers

| Acute systemic effects |            | Acute local effects |            | Long-term systemic effects |            | Long-term local effects |            |
|------------------------|------------|---------------------|------------|----------------------------|------------|-------------------------|------------|
| Dermal                 | Inhalation | Dermal              | Inhalation | Dermal                     | Inhalation | Dermal                  | Inhalation |
| n.a.                   | n.a.       | n.a.                | n.a.       | n.a.                       | 10 mg/m3   | n.a.                    | 10 mg/m3   |

### Consumers

| Acute systemic effects |            |      | Acute local effects |            | Long-term systemic effects |            |      | Long-term local effects |            |
|------------------------|------------|------|---------------------|------------|----------------------------|------------|------|-------------------------|------------|
| Dermal                 | Inhalation | Oral | Dermal              | Inhalation | Dermal                     | Inhalation | Oral | Dermal                  | Inhalation |
| n.a.                   | n.a.       | n.a. | n.a.                | n.a.       | n.a.                       | n.a.       | n.a. | n.a.                    | n.a.       |

### Predicted No Effect Concentration

Dodecamethyl cyclohexasiloxane

| Compartment            | PNEC        |
|------------------------|-------------|
| Fresh water sediment   | 2.826 mg/kg |
| Marine sediment        | 0.282 mg/kg |
| Soil                   | 3.336 mg/kg |
| Sewage treatment plant | > 1.0 mg/l  |

## 8.2 Exposure controls

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

### Individual protection measures

**Eye/face protection:** Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

#### Skin protection

**Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Natural rubber ("latex"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of

1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0.35 mm. Other glove materials with a thickness of less than 0.35 mm may offer sufficient protection when only brief contact is expected. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Wear clean, body-covering clothing.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2 (meeting standard EN 14387).

#### Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

#### Appearance

|                                      |                           |
|--------------------------------------|---------------------------|
| Physical state                       | viscous liquid            |
| Color                                | red                       |
| Odor                                 | slight                    |
| Odor Threshold                       | No data available         |
| pH                                   | No data available         |
| Melting point/range                  | No data available         |
| Freezing point                       | No data available         |
| Boiling point (760 mmHg)             | > 65 °C                   |
| Flash point                          | <b>closed cup</b> >120 °C |
| Evaporation Rate (Butyl Acetate = 1) | No data available         |
| Flammability (solid, gas)            | Not applicable            |
| Lower explosion limit                | No data available         |
| Upper explosion limit                | No data available         |
| Vapor Pressure                       | No data available         |

|                                        |                                                          |
|----------------------------------------|----------------------------------------------------------|
| Relative Vapor Density (air = 1)       | No data available                                        |
| Relative Density (water = 1)           | 2.4                                                      |
| Water solubility                       | No data available                                        |
| Partition coefficient: n-octanol/water | No data available                                        |
| Auto-ignition temperature              | No data available                                        |
| Decomposition temperature              | No data available                                        |
| Kinematic Viscosity                    | 30000 cSt                                                |
| Explosive properties                   | Not explosive                                            |
| Oxidizing properties                   | The substance or mixture is not classified as oxidizing. |

## 9.2 Other information

**Molecular weight** No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## SECTION 10: STABILITY AND REACTIVITY

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**10.1 Reactivity:** Not classified as a reactivity hazard.

**10.2 Chemical stability:** Stable under normal conditions.

**10.3 Possibility of hazardous reactions:** Can react with strong oxidizing agents.

**10.4 Conditions to avoid:** None known.

**10.5 Incompatible materials:** Oxidizing agents

**10.6 Hazardous decomposition products:** Formaldehyde.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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*Toxicological information appears in this section when such data is available.*

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: Single dose oral LD50 has not been determined.

Based on information for component(s):  
LD50, Rat, > 5,000 mg/kg Estimated.

##### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

Based on information for component(s):  
LD50, Rabbit, > 2,000 mg/kg Estimated.

**Acute inhalation toxicity**

At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.

As product: The LC50 has not been determined.

**Skin corrosion/irritation**

Brief contact is essentially nonirritating to skin.

Prolonged contact may cause slight skin irritation with local redness.

**Serious eye damage/eye irritation**

May cause slight temporary eye irritation.

Corneal injury is unlikely.

**Sensitization**

For skin sensitization:

Contains component(s) which did not cause allergic skin sensitization in guinea pigs.

For respiratory sensitization:

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Repeated excessive exposures to alumina (aluminium oxide) dust or fumes may cause respiratory effects.

Exposure to alumina alone has not been shown to cause chronic lung disease. Some forms of alumina, when injected directly into the lungs of animals, caused fibrosis, but this is an abnormal route of exposure.

**Carcinogenicity**

No relevant data found.

**Teratogenicity**

High doses of aluminium and aluminium salts given to laboratory animals during pregnancy have caused developmental toxicity in the fetus at doses mildly toxic to the mother. The relevance of these data to alumina is unknown.

**Reproductive toxicity**

No relevant data found.

**Mutagenicity**

Contains component(s) which were negative in some in vitro genetic toxicity studies and positive in others. Contains component(s) which were negative in some animal genetic toxicity studies and positive in others.

**Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

**COMPONENTS INFLUENCING TOXICOLOGY:**

**Dodecamethyl cyclohexasiloxane**

**Acute inhalation toxicity**

The LC50 has not been determined.

**Methyltrimethoxysilane treated aluminum oxide**

**Acute inhalation toxicity**

For similar material(s): LC50, Rat, male and female, dust/mist, > 2.3 mg/l No deaths occurred at this concentration.

**Iron oxide (Fe2O3)**

**Acute inhalation toxicity**

Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract (nose and throat). Exposure to metal oxide fumes may cause metal fume fever, characterized by influenza-like symptoms.

As product: The LC50 has not been determined.

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**SECTION 12: ECOLOGICAL INFORMATION**

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*Ecotoxicological information appears in this section when such data is available.*

**12.1 Toxicity**

**Dodecamethyl cyclohexasiloxane**

**Acute toxicity to algae/aquatic plants**

Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, > 0.002 mg/l

**Chronic toxicity to aquatic invertebrates**

No toxicity at the limit of solubility

NOEC, Daphnia magna (Water flea), 21 d, 0.0046 mg/l

**Methyltrimethoxysilane treated aluminum oxide**

**Acute toxicity to fish**

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

EC50, Fish, 96 Hour, > 100 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

EC50, Daphnia magna (Water flea), 48 Hour, > 100 mg/l, OECD Test Guideline 202 or Equivalent

**Acute toxicity to algae/aquatic plants**

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, > 100 mg/l, OECD Test Guideline 201 or Equivalent

#### **Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)**

##### **Acute toxicity to fish**

Material is not classified as dangerous to aquatic organisms (LC<sub>50</sub>/EC<sub>50</sub>/IC<sub>50</sub>/LL<sub>50</sub>/EL<sub>50</sub> greater than 100 mg/L in most sensitive species).

LC<sub>50</sub>, Danio rerio (zebra fish), static test, 96 Hour, > 50,000 mg/l

##### **Acute toxicity to aquatic invertebrates**

EC<sub>50</sub>, Daphnia magna (Water flea), static test, 48 Hour, > 100 mg/l, OECD Test Guideline 202

##### **Toxicity to bacteria**

EC<sub>50</sub>, Pseudomonas fluorescens, 24 Hour, >5,000 mg/l

EC<sub>50</sub>, activated sludge, static test, 3 Hour, Respiration rates., > 10,000 mg/l, ISO 8192

### **12.2 Persistence and degradability**

#### **Dodecamethyl cyclohexasiloxane**

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Fail

**Biodegradation:** 57 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301B

#### **Methyltrimethoxysilane treated aluminum oxide**

**Biodegradability:** Biodegradation is not applicable.

#### **Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)**

**Biodegradability:** Biodegradation is not applicable.

### **12.3 Bioaccumulative potential**

#### **Dodecamethyl cyclohexasiloxane**

**Bioaccumulation:** Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

**Partition coefficient: n-octanol/water(log Pow):** 8.87

#### **Methyltrimethoxysilane treated aluminum oxide**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

#### **Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)**

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

### **12.4 Mobility in soil**

#### **Dodecamethyl cyclohexasiloxane**

Potential for mobility in soil is very high (Koc between 0 and 50).

#### **Methyltrimethoxysilane treated aluminum oxide**

No relevant data found.

**Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)**

No relevant data found.

**12.5 Results of PBT and vPvB assessment**

**Dodecamethyl cyclohexasiloxane**

Dodecamethyl cyclohexasiloxane (D6) meets the current REACH Annex XIII criteria for vPvB. However, D6 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D6 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

**Methyltrimethoxysilane treated aluminum oxide**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**12.6 Other adverse effects**

**Dodecamethyl cyclohexasiloxane**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Methyltrimethoxysilane treated aluminum oxide**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

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## **SECTION 14: TRANSPORT INFORMATION**

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**Classification for ROAD and Rail transport (ADR/RID):**

- |                                 |                             |
|---------------------------------|-----------------------------|
| 14.1 UN number                  | Not applicable              |
| 14.2 UN proper shipping name    | Not regulated for transport |
| 14.3 Transport hazard class(es) | Not applicable              |
| 14.4 Packing group              | Not applicable              |

**14.5 Environmental hazards** Not considered environmentally hazardous based on available data.

**14.6 Special precautions for user** No data available.

**Classification for SEA transport (IMO-IMDG):**

**14.1 UN number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

**14.3 Transport hazard class(es)** Not applicable

**14.4 Packing group** Not applicable

**14.5 Environmental hazards** Not considered as marine pollutant based on available data.

**14.6 Special precautions for user** No data available.

**14.7 Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code** Consult IMO regulations before transporting ocean bulk

**Classification for AIR transport (IATA/ICAO):**

**14.1 UN number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

**14.3 Transport hazard class(es)** Not applicable

**14.4 Packing group** Not applicable

**14.5 Environmental hazards** Not applicable

**14.6 Special precautions for user** No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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## **SECTION 15: REGULATORY INFORMATION**

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### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **REACH Regulation (EC) No 1907/2006**

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered, or are exempt from registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration

status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

**Authorisation status under REACH:**

The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

|                                                                                                         |                                      |
|---------------------------------------------------------------------------------------------------------|--------------------------------------|
| CAS-No.: 540-97-6                                                                                       | Name: Dodecamethyl cyclohexasiloxane |
| Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation |                                      |
| Authorisation number: Not available                                                                     |                                      |
| Sunset date: Not available                                                                              |                                      |
| Exempted (Categories of) Uses: Not available                                                            |                                      |

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.**

Listed in Regulation: Not applicable

**15.2 Chemical safety assessment**

Not applicable

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## **SECTION 16: OTHER INFORMATION**

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**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008**

This product is not classified as dangerous according to EC criteria.

**Revision**

Identification Number: 4025232 / A279 / Issue Date: 16.01.2019 / Version: 2.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

|         |                                          |
|---------|------------------------------------------|
| ACGIH   | USA. ACGIH Threshold Limit Values (TLV)  |
| GB EH40 | UK. EH40 WEL - Workplace Exposure Limits |
| TWA     | 8-hour, time-weighted average            |

**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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