



## SAFETY DATA SHEET

### DOWSIL RSN 0749 RESIN

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Product name             | DOWSIL RSN 0749 RESIN                                                                                      |
| Product number           | 13649                                                                                                      |
| Synonyms; trade names    | DOW CORNING RSN-0749 RESIN, XIAMETER RSN-0749 RESIN                                                        |
| REACH registration notes | This product is not classified as hazardous, the information in this datasheet is given for guidance only. |

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

|                 |           |
|-----------------|-----------|
| Identified uses | Cosmetics |
|-----------------|-----------|

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

|          |                                                                                                                                                                     |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplier | Univar Solutions UK Ltd<br>Aquarius House<br>6 Mid Point Business Park<br>Bradford<br>BD3 7AY<br>+44 1274 267300<br>+44 1274 267306<br>SDS.EMEA@univarsolutions.com |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

##### 1.4. Emergency telephone number

|                     |                                |
|---------------------|--------------------------------|
| Emergency telephone | SGS - +32 (0)3 575 55 55 (24h) |
| Sds No.             | 13649                          |

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

|                       |                |
|-----------------------|----------------|
| Physical hazards      | Not Classified |
| Health hazards        | Not Classified |
| Environmental hazards | Not Classified |

##### 2.2. Label elements

|                   |                   |
|-------------------|-------------------|
| Hazard statements | NC Not Classified |
|-------------------|-------------------|

##### 2.3. Other hazards

This product contains a substance classified as PBT. This product contains a substance classified as vPvB.

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

## DOWSIL RSN 0749 RESIN

|                                     |                      |                                                  |
|-------------------------------------|----------------------|--------------------------------------------------|
| <b>DECAMETHYLCYCLOPENTASILOXANE</b> |                      | <b>&gt;= 40.0 - &lt;= 50.0 %</b>                 |
| CAS number: 541-02-6                | EC number: 208-764-9 | REACH registration number: 01-2119511367-43-XXXX |

**Classification**  
Not Classified

|                                      |                      |                                                  |
|--------------------------------------|----------------------|--------------------------------------------------|
| <b>DODECAMETHYLCYCLOHEXASILOXANE</b> |                      | <b>&gt;= 0.05 - &lt;= 2.6 %</b>                  |
| CAS number: 540-97-6                 | EC number: 208-762-8 | REACH registration number: 01-2119517435-42-XXXX |

**Classification**  
Not Classified

The full text for all hazard statements is displayed in Section 16.

**Composition comments** The data shown are in accordance with the latest EC Directives.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

|                            |                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | First aid personnel should wear appropriate protective equipment during any rescue. Wear protective clothing as described in Section 8 of this safety data sheet.                                                           |
| <b>Inhalation</b>          | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.                                    |
| <b>Ingestion</b>           | Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.                                                                                                               |
| <b>Skin contact</b>        | Remove affected person from source of contamination. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues. |
| <b>Eye contact</b>         | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.                                |

##### 4.2. Most important symptoms and effects, both acute and delayed

|                    |                                               |
|--------------------|-----------------------------------------------|
| <b>Inhalation</b>  | May cause an asthma-like shortness of breath. |
| <b>Eye contact</b> | May cause temporary eye irritation.           |

##### 4.3. Indication of any immediate medical attention and special treatment needed

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| <b>Notes for the doctor</b> | No specific recommendations. If in doubt, get medical attention promptly. |
|-----------------------------|---------------------------------------------------------------------------|

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

|                                       |                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Extinguish with the following media: Alcohol-resistant foam. Dry chemicals, sand, dolomite etc. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.                          |

##### 5.2. Special hazards arising from the substance or mixture

## DOWSIL RSN 0749 RESIN

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific hazards</b>                              | May travel considerable distance to source of ignition and flash back. The product increases the risk of fire and may accelerate combustion. When heated and in case of fire, toxic vapours/gases may be formed. Vapours may form explosive mixtures with air.                                                                                                                          |
| <b>Hazardous combustion products</b>                 | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Formaldehyde Oxides of the following substances: Carbon. Silicon.                                                                                                                                                                                                                      |
| <b><u>5.3. Advice for firefighters</u></b>           |                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protective actions during firefighting</b>        | Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Do not use water jet as an extinguisher, as this will spread the fire. Move containers from fire area if it can be done without risk. Contain and collect extinguishing water. Avoid the spillage or runoff entering drains, sewers or watercourses. Evacuate area. |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.                                                                                                                                                                                                                                                                                   |

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

|                             |                                                                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Eliminate all sources of ignition. |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **6.2. Environmental precautions**

|                                  |                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions</b> | Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **6.3. Methods and material for containment and cleaning up**

|                                |                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for cleaning up</b> | Use only non-sparking tools. Absorb spillage with non-combustible, absorbent material. Use water spray to reduce vapours. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Avoid the spillage or runoff entering drains, sewers or watercourses. |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **6.4. Reference to other sections**

|                                    |                                                                                                                   |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Reference to other sections</b> | Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13. |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------|

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage precautions</b> | Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Container must be kept tightly closed when not in use. Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. Avoid spilling. Avoid release to the environment. Observe good chemical hygiene practices. |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **7.2. Conditions for safe storage, including any incompatibilities**

|                            |                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage precautions</b> | Store in tightly-closed, original container in a dry, cool and well-ventilated place. Only store in correctly labelled containers. Container must be kept tightly closed when not in use. Avoid heat, flames and other sources of ignition. Store away from the following materials: Strong oxidising agents. Explosive Class 2: Gases |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **7.3. Specific end use(s)**

## DOWSIL RSN 0749 RESIN

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### DECAMETHYLCYCLOPENTASILOXANE

Long-term exposure limit (8-hour TWA): SUP 10 ppm

**Ingredient comments** Observe any occupational exposure limits for the product or ingredients.

##### DECAMETHYLCYCLOPENTASILOXANE (CAS: 541-02-6)

###### DNEL

Workers - Inhalation; Short term systemic effects: 97.3 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term local effects: 24.2 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term systemic effects: 97.3 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 24.2 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term systemic effects: 17.3 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term local effects: 4.3 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 17.3 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 4.3 mg/m<sup>3</sup>  
 Consumer - Oral; Short term systemic effects: 5 mg/kg/day  
 Consumer - Oral; Long term systemic effects: 5 mg/kg/day

###### PNEC

- Fresh water; >0.0012 mg/l  
 - marine water; >0.00012 mg/l  
 - Sediment (Freshwater); 2.4 mg/kg  
 - Sediment (Marinewater); 0.24 mg/kg  
 - Soil; 1.1 mg/kg  
 - STP; >10 mg/l

##### DODECAMETHYLCYCLOHEXASILOXANE (CAS: 540-97-6)

###### DNEL

Workers - Inhalation; Long term systemic effects: 11 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term local effects: 6.1 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 1.22 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 2.7 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term local effects: 1.5 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 0.3 mg/m<sup>3</sup>  
 Consumer - Oral; Short term systemic effects: 1.7 mg/kg/day  
 Consumer - Oral; Long term systemic effects: 1.7 mg/kg/day

###### PNEC

- Sediment (Freshwater); 2.826 mg/kg  
 - Sediment (Marinewater); 0.282 mg/kg  
 - Soil; 3.336 mg/kg  
 - STP; >1.0 mg/l

#### 8.2. Exposure controls

##### Protective equipment



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|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | Provide adequate ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.                                                                                                           |
| <b>Eye/face protection</b>              | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.                                                                                                                     |
| <b>Hand protection</b>                  | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. |
| <b>Other skin and body protection</b>   | Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.                                                                                                                                                                                                                                                                                                    |
| <b>Hygiene measures</b>                 | When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.                                                                                                               |
| <b>Respiratory protection</b>           | Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter. Gas filter, type A EN 136/140/141/145/143/149                  |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                                     |                           |
|-----------------------------------------------------|---------------------------|
| <b>Appearance</b>                                   | Liquid.                   |
| <b>Colour</b>                                       | Opaque liquid.            |
| <b>Odour</b>                                        | Odourless.                |
| <b>Odour threshold</b>                              | No information available. |
| <b>pH</b>                                           | No information available. |
| <b>Melting point</b>                                | No information available. |
| <b>Pour Point</b>                                   | No information available. |
| <b>Freezing Point</b>                               | No information available. |
| <b>Initial boiling point and range</b>              | 211°C @ 760 mm Hg         |
| <b>Flash point</b>                                  | 73°C Closed cup.          |
| <b>Evaporation rate</b>                             | No information available. |
| <b>Evaporation factor</b>                           | No information available. |
| <b>Flammability (solid, gas)</b>                    | No information available. |
| <b>Upper/lower flammability or explosive limits</b> | No information available. |
| <b>Other flammability</b>                           | No information available. |

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|                                          |                                                             |
|------------------------------------------|-------------------------------------------------------------|
| Vapour pressure                          | No information available.                                   |
| Vapour density                           | No information available.                                   |
| Relative density                         | 1.050                                                       |
| Bulk density                             | No information available.                                   |
| Solubility(ies)                          | No information available.                                   |
| Partition coefficient                    | No information available.                                   |
| Auto-ignition temperature                | No information available.                                   |
| Decomposition Temperature                | No information available.                                   |
| Viscosity                                | 500 cSt @ 25°C                                              |
| Explosive properties                     | Not considered to be explosive.                             |
| Explosive under the influence of a flame | No information available.                                   |
| Oxidising properties                     | Does not meet the criteria for classification as oxidising. |

### 9.2. Other information

|                           |                           |
|---------------------------|---------------------------|
| Other information         | Not determined.           |
| Refractive index          | No information available. |
| Particle size             | No information available. |
| Molecular weight          | No information available. |
| Volatility                | No information available. |
| Saturation concentration  | No information available. |
| Critical temperature      | No information available. |
| Volatile organic compound | No information available. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                                                                     |
|------------|---------------------------------------------------------------------|
| Reactivity | There are no known reactivity hazards associated with this product. |
|------------|---------------------------------------------------------------------|

### 10.2. Chemical stability

|           |                                        |
|-----------|----------------------------------------|
| Stability | Stable at normal ambient temperatures. |
|-----------|----------------------------------------|

### 10.3. Possibility of hazardous reactions

|                                    |                                                                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Possibility of hazardous reactions | The following materials may react with the product: Strong oxidising agents. Vapours may form explosive mixtures with air. Combustible liquid. |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

### 10.4. Conditions to avoid

|                     |                                                   |
|---------------------|---------------------------------------------------|
| Conditions to avoid | Avoid heat, flames and other sources of ignition. |
|---------------------|---------------------------------------------------|

### 10.5. Incompatible materials

|                    |                          |
|--------------------|--------------------------|
| Materials to avoid | Strong oxidising agents. |
|--------------------|--------------------------|

### 10.6. Hazardous decomposition products

|                                  |                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous decomposition products | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Formaldehyde Oxides of the following substances: Carbon. Silicon. |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## DOWSIL RSN 0749 RESIN

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** This product has low toxicity. Not determined. Information given is applicable to the major ingredient. LD<sub>50</sub> > 5000 mg/kg, Oral, Rat Estimated value.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Not determined. Information given is applicable to the major ingredient. LD<sub>50</sub> > 5000 mg/kg, Dermal, Rabbit Estimated value.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Not determined.

##### Skin corrosion/irritation

**Animal data** Not irritating.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating.

##### Respiratory sensitisation

**Respiratory sensitisation** No information available.

##### Skin sensitisation

**Skin sensitisation** No information available.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Does not contain any substances known to be mutagenic.

##### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer. Results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date have not demonstrated if this effect occurs through a pathway that is relevant to humans.

##### Reproductive toxicity

**Reproductive toxicity - fertility** No evidence of reproductive toxicity in animal studies.

##### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

##### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met. Not classified as a specific target organ toxicant after repeated exposure.

##### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

##### Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

##### Ingestion

May cause discomfort if swallowed.

##### Skin contact

Skin irritation should not occur when used as recommended.

##### Eye contact

May cause temporary eye irritation.

##### Toxicological information on ingredients.

## DOWSIL RSN 0749 RESIN

### DECAMETHYLCYCLOPENTASILOXANE

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> > 24134 mg/kg, Oral, Rat

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> > 2000 mg/kg, Dermal, Rabbit

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l) 8.67

Species Rat

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> 8.67 mg/l, Inhalation, Dust/Mist, Rat

ATE inhalation (dusts/mists mg/l) 8.67

#### Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo DNA damage and/or repair: Negative.

#### Carcinogenicity

Carcinogenicity Results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcycllopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date have not demonstrated if this effect occurs through a pathway that is relevant to humans.

#### Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Reproductive toxicity - development No evidence of reproductive toxicity in animal studies.

#### Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 200 mg/kg, Dermal, NOAEL 100 mg/kg, Oral, LOAEL 125 mg/kg, ,

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

### DODECAMETHYLCYCLOHEXASILOXANE

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> > 2000 mg/kg, Oral, Rat

#### Acute toxicity - dermal

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Notes (dermal LD<sub>50</sub>)LD<sub>50</sub> > 2000 mg/kg, Dermal, Rabbit

### SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

#### Ecological information on ingredients.

##### DECAMETHYLCYCLOPENTASILOXANE

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

##### DODECAMETHYLCYCLOHEXASILOXANE

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

**Toxicity** No information available.

#### Ecological information on ingredients.

##### DECAMETHYLCYCLOPENTASILOXANE

**Toxicity** Not toxic at limit of water solubility.

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >16 µg/l, Oncorhynchus mykiss (Rainbow trout)  
Not toxic at limit of water solubility.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >2.9 mg/l, Daphnia magna  
OECD 202  
Not toxic at limit of water solubility.

**Acute toxicity - aquatic plants** ErC50, 96 hours: > 0.012 mg/l, Pseudokirchneriella subcapitata  
Not toxic at limit of water solubility.  
NOEC, 96 hours: 0.012 mg/l, Pseudokirchneriella subcapitata  
Not toxic at limit of water solubility.

**Acute toxicity - terrestrial** NOEC, : >= 76 mg/kg, Eisenia Fetida (Earthworm)

##### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** Not toxic at limit of water solubility.  
LC<sub>50</sub>, 14 day: >16 mg/l, Oncorhynchus mykiss (Rainbow trout)  
Not toxic at limit of water solubility.  
NOEC, 45 day: >= 0.017 mg/l, Oncorhynchus mykiss (Rainbow trout)  
Not toxic at limit of water solubility.  
NOEC, 90 day: >= 0.014 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.015 mg/l, Daphnia magna  
OECD 211

##### DODECAMETHYLCYCLOHEXASILOXANE

##### Acute aquatic toxicity

## DOWSIL RSN 0749 RESIN

### Acute toxicity - aquatic plants

ErC50, 72 hour: > 0.002 mg/l, *Pseudokirchneriella subcapitata*  
Not toxic at limit of water solubility.

### Chronic aquatic toxicity

### Chronic toxicity - aquatic invertebrates

NOEC, 21 day: 0.0046 mg/l, *Daphnia magna*  
Not toxic at limit of water solubility.

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### Ecological information on ingredients.

#### DECAMETHYLCYCLOPENTASILOXANE

### Persistence and degradability

Not readily biodegradable.

### Biodegradation

- Degradation 0.14%: 28 days  
(OECD 310)

#### DODECAMETHYLCYCLOHEXASILOXANE

### Persistence and degradability

The product is not readily biodegradable.

### Biodegradation

- Degradation 57%: 28 days  
OCED 301B

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

### Ecological information on ingredients.

#### DECAMETHYLCYCLOPENTASILOXANE

### Bioaccumulative potential

BCF: > 500, *Pimephales promelas* (Fat-head Minnow)  
BCF: 2010, Fish Estimated value.

### Partition coefficient

log Pow: 5.2

#### DODECAMETHYLCYCLOHEXASILOXANE

### Bioaccumulative potential

Bioaccumulation is unlikely.

### Partition coefficient

log Pow: 8.87

### 12.4. Mobility in soil

**Mobility** No information available.

### Ecological information on ingredients.

#### DECAMETHYLCYCLOPENTASILOXANE

### Mobility

Not considered mobile.

### Adsorption/desorption coefficient

- Koc: > 5000 @ 20°C Estimated value.

## DOWSIL RSN 0749 RESIN

### DODECAMETHYLCYCLOHEXASILOXANE

Mobility

Mobile.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**

This product contains a substance classified as PBT. This product contains a substance classified as vPvB.

#### Ecological information on ingredients.

### DECAMETHYLCYCLOPENTASILOXANE

**Results of PBT and vPvB assessment**

Decamethylcyclopentasiloxane (D5) meets the current REACH Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 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. Based on an independent scientific panel of experts, the Canadian Minister of the Environment has concluded that "D5 is not entering the environment in a quantity or concentration or under conditions that have or may have an immediate or long-term harmful effect on the environment or its biological diversity, or that constitute or may constitute a danger to the environment on which life depends".

### DODECAMETHYLCYCLOHEXASILOXANE

**Results of PBT and vPvB assessment**

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.

#### 12.6. Other adverse effects

Other adverse effects

Not determined.

#### Ecological information on ingredients.

### DECAMETHYLCYCLOPENTASILOXANE

Other adverse effects

Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

General information

Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

## DOWSIL RSN 0749 RESIN

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## SECTION 15: Regulatory information

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

#### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### Restrictions (Annex XVII Regulation 1907/2006)

CAUTION - Chemical may be subject to REACH RESTRICTIONS - see Annex XVII. This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 70

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

##### EU - EINECS/ELINCS

All the ingredients are listed or exempt.

##### Canada - DSL/NDL

All the ingredients are listed or exempt.  
DSL

##### US - TSCA

All the ingredients are listed or exempt.

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**Australia - AICS**

All the ingredients are listed or exempt.

**Korea - KECI**

All the ingredients are listed or exempt.

**China - IECSC**

All the ingredients are listed or exempt.

**Philippines – PICCS**

All the ingredients are listed or exempt.

**New Zealand - NZIOC**

All the ingredients are listed or exempt.

**SECTION 16: Other information**

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### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 IATA: International Air Transport Association.  
 IMDG: International Maritime Dangerous Goods.  
 Kow: Octanol-water partition coefficient.  
 LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 vPvB: Very Persistent and Very Bioaccumulative.  
 IARC: International Agency for Research on Cancer.  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
 cATpE: Converted Acute Toxicity Point Estimate.  
 BCF: Bioconcentration Factor.  
 BOD: Biochemical Oxygen Demand.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 LOAEC: Lowest Observed Adverse Effect Concentration.  
 LOAEL: Lowest Observed Adverse Effect Level.  
 NOAEC: No Observed Adverse Effect Concentration.  
 NOAEL: No Observed Adverse Effect Level.  
 NOEC: No Observed Effect Concentration.  
 LOEC: Lowest Observed Effect Concentration.  
 DMEL: Derived Minimal Effect Level.  
 EL50: Exposure Limit 50  
 hPa: Hectopascal  
 LL50: Lethal Loading fifty  
 OECD: Organisation for Economic Co-operation and Development  
 POW: Octanol-water partition coefficient  
 SCBA: self-contained breathing apparatus  
 STP: Sewage Treatment Plant  
 VOC: Volatile Organic Compounds

### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
 Aquatic Acute = Hazardous to the aquatic environment (acute)  
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

### Key literature references and sources for data

Supplier's information.

### Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

### Revision date

01/04/2020

### Version number

4.000

### Supersedes date

24/10/2018

### SDS number

13649

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**SDS status**

Approved.

**Signature**

Lisa Bland