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DOW CORNING(R) 3140 RTV COATING

SECTION 1. IDENTIFICATION

Product name : DOW CORNING(R) 3140 RTV COATING
Product code : 00000000001015788

Manufacturer or supplier’s details
Company name of supplier : Dow Corning Corporation
Address : South Saginaw Road
            Midland Michigan 48686
Telephone : (989) 496-6000
Emergency telephone : 24 Hour Emergency Telephone : (989) 496-5900
CHEMTREC : (800) 424-9300

Recommended use of the chemical and restrictions on use
Recommended use : Adhesive, binding agents
Electrical industry and electronics

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin sensitization : Category 1
Reproductive toxicity : Category 2

GHS Label element
Hazard pictograms :

Signal Word : Warning
Hazard Statements : H317 May cause an allergic skin reaction.
H381 Suspected of damaging fertility or the unborn child.

Precautionary Statements : Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read
and understood.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of
the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection.
Response:

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture
Chemical nature: Silicone elastomer

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethyldisilazane reaction with Silica</td>
<td>68909-20-6</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Methyltrimethoxysilane</td>
<td>1185-55-3</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Octamethylocyclotetrasiloxane</td>
<td>556-67-2</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If inhaled: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact: In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

If swallowed: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
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Most important symptoms and effects, both acute and delayed:
- May cause an allergic skin reaction.
  Suspected of damaging fertility or the unborn child.

Protection of first-aiders:
- First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician:
- Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
- Water spray
- Alcohol-resistant foam
- Carbon dioxide (CO2)
- Dry chemical

Unsuitable extinguishing media:
- None known.

Specific hazards during fire fighting:
- Exposure to combustion products may be a hazard to health.

Hazardous combustion products:
- Carbon oxides
- Silicon oxides
- Formaldehyde
- Nitrogen oxides (NOx)

Specific extinguishing methods:
- 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 fire-fighters:
- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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.

Methods and materials for:
- Soak up with inert absorbent material.
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containment and cleaning up: For large spills, provide diking or other appropriate contain-
ment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and dis-
posal of this material, as well as those materials and items
employed in the cleanup of releases. You will need to deter-
mine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding
certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures: See Engineering measures under EXPOSURE
CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation: Use only with adequate ventilation.

Advice on safe handling: Do not get on skin or clothing.
Avoid inhalation of vapor or mist.
Do not swallow.
Avoid contact with eyes.
Handle in accordance with good industrial hygiene and safety
practices.
Keep away from water.
Protect from moisture.
Take care to prevent spills, waste and minimize release to the
environment.

Conditions for safe storage: Keep in properly labeled containers.
Store in accordance with the particular national regulations.

Materials to avoid: Do not store with the following product types:
Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethyldisilazane reaction with Silica</td>
<td>68909-20-6</td>
<td>TWA (Dust)</td>
<td>20 Million particles per cubic foot (Silica)</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust)</td>
<td>80 mg/m3 / % SIO2 (Silica)</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td>Methyltrimethoxysilane</td>
<td>1185-55-3</td>
<td>TWA</td>
<td>50 ppm</td>
<td>DCC OEL</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>556-67-2</td>
<td>TWA</td>
<td>10 ppm</td>
<td>DCC OEL</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
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Occupational exposure limits of decomposition products

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>250 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>250 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
<td>OSHA Z-1</td>
</tr>
</tbody>
</table>

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>Methanol</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>15 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Engineering measures

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material: Impervious gloves
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Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection: Wear the following personal protective equipment:
Safety glasses

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: white, translucent
Odor: slight
Odor Threshold: No data available
pH: No data available
Melting point/freezing point: No data available
Initial boiling point and boiling range: > 65 °C
Flash point: > 101.1 °C
Method: closed cup
Evaporation rate: No data available
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Flammability (solid, gas) : Not applicable
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : No data available
Relative vapor density : No data available
Relative density : 1.05

Solubility(ies)
Water solubility : No data available
Partition coefficient: n-octanol/water : No data available
Autoignition temperature : No data available
Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : 300 Poise

Explosive properties : Not explosive
Oxidizing properties : The substance or mixture is not classified as oxidizing.
Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.
Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. When heated to temperatures above 180 °C (356 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048 Hazardous decomposition products will be formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Exposure to moisture.

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1. Incompatible materials
   Oxidizing agents
   Water

2. Hazardous decomposition products
   Contact with water or humid air
   Methanol
   Thermal decomposition
   Formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity
   Acute toxicity estimate: > 5,000 mg/kg
   Method: Calculation method

Acute inhalation toxicity
   Acute toxicity estimate: > 40 mg/l
   Exposure time: 4 h
   Test atmosphere: vapor
   Method: Calculation method

Acute dermal toxicity
   Acute toxicity estimate: > 5,000 mg/kg
   Method: Calculation method

Ingredients:
Hexamethyldisilazane reaction with Silica:
Acute oral toxicity
   LD50 (Rat): > 5,000 mg/kg
   Assessment: The substance or mixture has no acute oral toxicity
   Remarks: Based on data from similar materials

Methyltrimethoxysilane:
Acute oral toxicity
   LD50 (Rat): 12.3 ml/kg
   Assessment: The substance or mixture has no acute oral toxicity
   Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity
   LC50 (Rat): > 42.1 mg/l
   Exposure time: 6 h
   Test atmosphere: vapor
   Assessment: The substance or mixture has no acute inhalation toxicity
   Remarks: Based on test data

Acute dermal toxicity
   LD50 (Rabbit): > 9,500 mg/kg
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Octamethylcyclotetrasiloxane:</strong></td>
<td></td>
</tr>
<tr>
<td>Acute oral toxicity</td>
<td>LD50 (Rat): &gt; 4,800 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Assessment: The substance or mixture has no acute oral toxicity</td>
</tr>
<tr>
<td></td>
<td>Remarks: Based on test data</td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>LC50 (Rat): 2975 ppm</td>
</tr>
<tr>
<td></td>
<td>Exposure time: 4 h</td>
</tr>
<tr>
<td></td>
<td>Test atmosphere: vapor</td>
</tr>
<tr>
<td></td>
<td>Assessment: The substance or mixture has no acute inhalation toxicity</td>
</tr>
<tr>
<td></td>
<td>Remarks: Based on test data</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>LD50 (Rabbit): &gt; 2.5 ml/kg</td>
</tr>
<tr>
<td></td>
<td>Assessment: The substance or mixture has no acute dermal toxicity</td>
</tr>
<tr>
<td></td>
<td>Remarks: Based on test data</td>
</tr>
<tr>
<td><strong>Methanol:</strong></td>
<td></td>
</tr>
<tr>
<td>Acute oral toxicity</td>
<td>Acute toxicity estimate (Humans): 300 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Method: Expert judgment</td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>Acute toxicity estimate (Humans): 3 mg/l</td>
</tr>
<tr>
<td></td>
<td>Test atmosphere: vapor</td>
</tr>
<tr>
<td></td>
<td>Method: Expert judgment</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>Acute toxicity estimate (Humans): 300 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Method: Expert judgment</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation
Not classified based on available information.

### Ingredients:
Hexamethyldisilazane reaction with Silica:
Assessment: Repeated exposure may cause skin dryness or cracking.

**Methyltrimethoxysilane:**
- **Species:** Rabbit
- **Result:** No skin irritation
- **Remarks:** Based on test data

**Octamethylcyclotetrasiloxane:**
- **Species:** Rabbit
- **Result:** No skin irritation
- **Remarks:** Based on test data

**Methanol:**
- **Species:** Rabbit
- **Result:** No skin irritation
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Serious eye damage/eye irritation
Not classified based on available information.

Ingredients:
Hexamethyldisilazane reaction with Silica:
Species: Rabbit
Result: No eye irritation
Remarks: Based on data from similar materials

Methyltrimethoxysilane:
Species: Rabbit
Result: No eye irritation
Remarks: Based on test data

Octamethylcyclotetrasiloxane:
Species: Rabbit
Result: No eye irritation
Remarks: Based on test data

Methanol:
Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitization
Skin sensitization: May cause an allergic skin reaction.
Respiratory sensitization: Not classified based on available information.

Ingredients:
Methyltrimethoxysilane:
Assessment: Probability or evidence of low to moderate skin sensitization rate in humans

Test Type: Buhehler Test
Species: Guinea pig
Remarks: Based on test data

Octamethylcyclotetrasiloxane:
Assessment: Does not cause skin sensitization.

Test Type: Maximization Test (GPMT)
Species: Guinea pig
Remarks: Based on test data

Methanol:
Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

Germ cell mutagenicity
Not classified based on available information.

Ingredients:
Hexamethyldisilazane reaction with Silica:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
<table>
<thead>
<tr>
<th>Property</th>
<th>Test Type</th>
<th>Result</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genotoxicity in vitro</td>
<td>Bacterial reverse mutation assay (AMES)</td>
<td>negative</td>
<td>Based on data from similar materials</td>
</tr>
<tr>
<td>Genotoxicity in vivo</td>
<td>Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</td>
<td>negative</td>
<td>Based on test data</td>
</tr>
<tr>
<td>Species: Mouse</td>
<td>Application Route: Ingestion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity assessment</td>
<td>Animal testing did not show any mutagenic effects.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>Bacterial reverse mutation assay (AMES)</td>
<td>negative</td>
<td>Based on test data</td>
</tr>
<tr>
<td>Genotoxicity in vitro</td>
<td>Mutagenicity (in vitro mammalian cytogenetic test)</td>
<td>negative</td>
<td>Based on test data</td>
</tr>
<tr>
<td>Genotoxicity in vivo</td>
<td>Chromosome aberration test in vitro</td>
<td>negative</td>
<td>Based on test data</td>
</tr>
<tr>
<td>Germ cell mutagenicity -</td>
<td>In vitro sister chromatid exchange assay in mammalian cells</td>
<td>negative</td>
<td>Based on test data</td>
</tr>
<tr>
<td>Germ cell mutagenicity -</td>
<td>DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vivo)</td>
<td>negative</td>
<td>Based on test data</td>
</tr>
<tr>
<td>Germ cell mutagenicity -</td>
<td>Rodent dominant lethal test (germ cell) (in vivo)</td>
<td>negative</td>
<td>Based on test data</td>
</tr>
</tbody>
</table>
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#### Assessment

**Methanol:**

- **Genotoxicity in vitro**:
  - Test Type: Bacterial reverse mutation assay (AMES)
  - Method: OECD Test Guideline 471
  - Result: negative

- **Genotoxicity in vivo**:
  - Test Type: In vivo mammalian cell gene mutation test
  - Method: OECD Test Guideline 476
  - Result: negative

**Carcinogenicity**

Not classified based on available information.

#### Ingredients:

**Methanol:**

- **Species**: Mouse
- **Application Route**: Inhalation (vapor)
- **Exposure time**: 16 Months
- **Method**: OECD Test Guideline 453
- **Result**: negative

**IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

**Ingredients:**

**Methyltrimethoxysilane:**

- **Effects on fertility**:
  - Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
  - **Species**: Rat, male and female
  - **Application Route**: Ingestion
  - **Symptoms**: No effects on fertility.
  - **Remarks**: Based on test data

- **Effects on fetal development**:
  - Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
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Species: Rat, male and female
Application Route: Ingestion
Symptoms: No effects on fetal development.
Remarks: Based on test data

Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Octamethylcyclotrisiloxane:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Rat, male and female
Application Route: inhalation (vapor)
Symptoms: Effects on fertility.
Remarks: Based on test data

Effects on fetal development: Test Type: Prenatal development toxicity study (teratogenicity)
Species: Rabbit
Application Route: inhalation (vapor)
Symptoms: No effects on fetal development.
Remarks: Based on test data

Reproductive toxicity - Assessment: Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Methanol:
Effects on fertility: Test Type: Fertility/early embryonic development
Species: Mouse
Application Route: Ingestion
Result: negative

Effects on fetal development: Test Type: Embryo-fetal development
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: positive
Remarks: The effects were seen only at maternally toxic doses.

STOT-single exposure
Not classified based on available information.

Ingredients:
Methanol:
Target Organs: Eyes, Central nervous system
Assessment: Causes damage to organs.

STOT-repeated exposure
Not classified based on available information.

Ingredients:
Methyltrimethoxysilane:
Routes of exposure: inhalation (vapor)
Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/8h/d or less.
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Routes of exposure: Ingestion
Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Octamethylcyclotetrasiloxane:
Routes of exposure: Ingestion
Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Routes of exposure: Inhalation (vapor)
Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Routes of exposure: Skin contact
Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

Repeated dose toxicity

Ingredients:

Methyltrimethoxysilane:
Species: Rat
Application Route: inhalation (vapor)
Remarks: Based on test data

Species: Rat
Application Route: Ingestion
Remarks: Based on test data

Octamethylcyclotetrasiloxane:
Species: Rat
Application Route: Ingestion
Remarks: Based on test data

Species: Rat
Application Route: Inhalation (vapor)
Remarks: Based on test data

Species: Rabbit
Application Route: Skin contact
Remarks: Based on test data

Methanol:
Species: Rat
NOAEL: 1.06 mg/l
Application Route: Inhalation (vapor)
Exposure time: 90 d

Aspiration toxicity
Not classified based on available information.

Product:
No aspiration toxicity classification
Further information

Ingredients:
Octamethylocyclotetrasiloxane:
Remarks: Results from a 2 year repeated vapor inhalation exposure study to rats of octamethyl-
cyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female ani-
mals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have
not demonstrated if these effects occur through pathways that are relevant to humans. Based on
the available information on its potential to cause harm to human health, Health Canada, in a
2008 screening assessment, has concluded that octamethylocyclotetrasiloxane is not entering the
environment in a quantity or concentration or under conditions that constitute or may constitute a
danger in Canada to human life or health (http://www.ec.gc.ca/ese-
ees/default.asp?lang=En&n=24818508-1). Repeated exposure in rats to D4 resulted in proto-
porphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the
protoporphyrin accumulation the relevance of this finding to humans is unknown.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:
Methyltrimethoxysilane:
Toxicity to fish
: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
  Exposure time: 96 h
  Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates
: EC50 (Daphnia sp.): > 100 mg/l
  Exposure time: 48 h
  Method: OECD Test Guideline 202

Toxicity to algae
: ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
  Exposure time: 72 h
  Method: OECD Test Guideline 201

Toxicity to bacteria
: EC50: > 100 mg/l
  Method: OECD Test Guideline 209

Octamethylocyclotetrasiloxane:
Toxicity to fish
: LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l
  Exposure time: 96 h
  Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates
: EC50 (Daphnia sp.): > 0.015 mg/l
  Exposure time: 48 h
  Remarks: No toxicity at the limit of solubility.

Toxicity to algae
: EC50: > 0.022 mg/l
  Exposure time: 96 h
  Remarks: No toxicity at the limit of solubility.
  NOEC: 0.022 mg/l
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Exposure time: 96 h
Remarks: No toxicity at the limit of solubility.

Toxicity to fish (Chronic toxicity):
NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0044 mg/l
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
NOEC (Daphnia magna (Water flea)): > 0.0079 mg/l
Exposure time: 21 d
Remarks: No toxicity at the limit of solubility.

Toxicity to bacteria:
IC50: > 10,000 mg/l
Method: ISO 8192

Ecotoxicology Assessment
Chronic aquatic toxicity:
May cause long lasting harmful effects to aquatic life.

Methanol:
Toxicity to fish:
LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h

Toxicity to algae:
EC50 (Pseudokirchneriella subcapitata (green algae)): 22,000 mg/l
Exposure time: 96 h
Method: GPPTS 850.5400

Toxicity to fish (Chronic toxicity):
NOEC (Oryzias latipes (Orange-red killifish)): 15,800 mg/l
Exposure time: 200 h

Toxicity to bacteria:
EC50: 20,000 mg/l
Exposure time: 15 h

Persistence and degradability

Ingredients:
Methyltrimethoxysilane:
Stability in water: Degradation half life: 2.2 h pH: 7

Octamethylcyclotetrasiloxane:
Biodegradability: Result: Not readily biodegradable.
Biodegradation: 3.7 %
Exposure time: 26 d
Method: OECD Test Guideline 310

Stability in water: Degradation half life: > 50000 H (24.6 °C) pH: 7
Method: OECD Test Guideline 111

Methanol:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 20 d
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Bioaccumulative potential

Ingredients:
- Methyltrimethoxysilane: Partition coefficient: n-octanol/water = log Pow: -2.36
- Octamethylocyclotetrasiloxane: Partition coefficient: n-octanol/water = log Pow: 6.48 (25.1 °C)
- Methanol: Bioaccumulation = Species: Leuciscus idus (Golden orfe) Bioconcentration factor (BCF): < 10
- Partition coefficient: n-octanol/water = log Pow: -0.77

Mobility in soil
No data available

Other adverse effects

Ingredients:
- Octamethylocyclotetrasiloxane: Remarks: Octamethylocyclotetrasiloxane (D4) meets the current REACh Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the P/T criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
- Resource Conservation and Recovery Act (RCRA): This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.
- Waste from residues: Dispose of in accordance with local regulations.
- Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.
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SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
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<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>5000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards:
- Acute Health Hazard
- Chronic Health Hazard

SARA 302
- No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
- This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know
- Dimethyl siloxane, hydroxy-terminated: 70131-67-8, 70 - 90 %
- Hexamethyldisilazane reaction with Silica: 68909-20-6, 10 - 20 %
- Methyltrimethoxysilane: 1185-55-3, 5 - 10 %
- Methanol: 67-56-1, 0.1 - 1 %

New Jersey Right To Know
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<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>MSDS Number</th>
<th>Date of last issue</th>
<th>Date of first issue</th>
</tr>
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<td>05/04/2015</td>
<td>1269102-00002</td>
<td>02/10/2015</td>
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</tbody>
</table>

- Dimethyl siloxane, hydroxy-terminated 70131-67-8 70 - 90 %
- Hexamethyldisilazane reaction with Silica 68909-20-6 10 - 20 %
- Methyltrimethoxysilane 1185-55-3 5 - 10 %
- Methanol 67-56-1 0.1 - 1 %

California Prop 65 WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

- Methanol 67-56-1

The ingredients of this product are reported in the following inventories:

- KECI: All ingredients listed, exempt or notified.
- REACH: All ingredients (pre-)registered or exempt.
- TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
- AICS: All ingredients listed or exempt.
- IECSC: All ingredients listed or exempt.
- ENCS/ISHL: All components are listed on ENCS/ISHL or exempted from inventory listing.
- PICCS: All ingredients listed or exempt.
- DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
- NZIoC: All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)
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SECTION 16. OTHER INFORMATION

Further information

NFPA:

HMIS III:

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
DCC OEL : Dow Corning Guide
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
DCC OEL / TWA : Time weighted average
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA : 8-hour time weighted average
OSHA Z-3 / TWA : 8-hour time weighted average

Sources of key data used to compile the Material Safety Data Sheet

Revision Date : 06/04/2015

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid.
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when the SDS material is used in combination with any other material(s) or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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