SAFETY DATA SHEET

DOW CORNING(R) RSN-0997 RESIN

Version  :  1.0
Revision Date:  12/16/2014
MSDS Number:  956098-00001
Date of last issue:  -
Date of first issue:  12/16/2014

SECTION 1. IDENTIFICATION

Product name  :  DOW CORNING(R) RSN-0997 RESIN
                0000000000004119426
Product code  :  DCC000001005

Manufacturer or supplier's details
Company name of supplier  :  Dow Corning Corporation
Address  :  South Saginaw Road
           Midland Michigan 48646
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  :  Electrical industry and electronics
Coatings

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids  :  Category 3
Skin irritation  :  Category 2
Eye irritation  :  Category 2B
Carcinogenicity  :  Category 2
Reproductive toxicity  :  Category 2
Specific target organ systemic toxicity - single exposure  :  Category 3
Specific target organ systemic toxicity - repeated exposure  :  Category 2 (Central nervous system, Liver, Kidney, Auditory system)

GHS Label element

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Hazard pictograms:

- Flame
- Chemical symbol
- Exclamation mark

Signal Word: Warning

Hazard Statements:
- H226 Flammable liquid and vapor.
- H315 + H320 Causes skin and eye irritation.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs (Central nervous system, Liver, Kidney, Auditory system) through prolonged or repeated exposure.

Precautionary Statements:
- Prevention:
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P233 Keep container tightly closed.
  - P240 Ground/bond container and receiving equipment.
  - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P260 Do not breathe spray.
  - P264 Wash skin thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
- Response:
  - P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
  - P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P308 + P313 IF exposed or concerned: Get medical advice/attention.
  - P332 + P313 If skin irritation occurs: Get medical advice/attention.
  - P337 + P313 If eye irritation persists: Get medical advice/attention.
  - P362 + P364 Take off contaminated clothing and wash it before reuse.
- Storage:
  - P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.  
Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards
Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Silicone resin

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Linseed Oil</td>
<td>8001-26-1</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), heavy arom.</td>
<td>64742-94-5</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
<tr>
<td>Zinc octoate</td>
<td>136-53-8</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.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.

If swallowed : If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
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Most important symptoms and effects, both acute and delayed
- Causes skin and eye irritation.
- May cause respiratory irritation.
- Suspected of causing cancer.
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs through prolonged or repeated exposure.

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
- Dry chemical
- Carbon dioxide (CO2)

Unsuitable extinguishing media
- High volume water jet

Specific hazards during firefighting
- Do not use a solid water stream as it may scatter and spread fire.
- Flash back possible over considerable distance.
- Vapors may form explosive mixtures with air.
- Exposure to combustion products may be a hazard to health.

Hazardous combustion products
- Carbon oxides
- Silicon oxides
- Formaldehyde

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
- Remove all sources of ignition.
- Use personal protective equipment.
- Follow safe handling advice and personal protective equipment recommendations.
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<td>12/16/2014</td>
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</tbody>
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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 containment and cleaning up
- Non-sparking tools should be used.
- Soak up with inert absorbent material.
- Suppress (knock down) gases/vapors/mists with a water spray jet.
- For large spills, provide diking or other appropriate containment 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 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.
- Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures
- Ensure all equipment is electrically grounded before beginning transfer operations.
- This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.
- Restrict flow velocity in order to reduce the accumulation of static electricity.

Local/Total ventilation
- Use with local exhaust ventilation.
- Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling
- Do not get on skin or clothing.
- Do not breathe vapors or spray mist.
- Do not swallow.
- Do not get in eyes.
- Handle in accordance with good industrial hygiene and safety practice.
- Non-sparking tools should be used.
- Keep container tightly closed.
- Keep away from heat and sources of ignition.
- Take precautionary measures against static discharges.
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Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage:
- Keep in properly labeled containers.
- Store locked up.
- Keep tightly closed.
- Keep in a cool, well-ventilated place.
- Store in accordance with the particular national regulations.
- Keep away from heat and sources of ignition.

Materials to avoid:
- Do not store with the following product types:
  - Strong oxidizing agents
  - Organic peroxides
  - Flammable solids
  - Pyrophoric liquids
  - Pyrophoric solids
  - Self-heating substances and mixtures
  - Substances and mixtures which in contact with water emit flammable gases
  - Explosives
  - Gases

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>Xylene</td>
<td>1330-20-7</td>
<td>TWA</td>
<td>100 ppm 435 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>TWA</td>
<td>20 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 435 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 435 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>125 ppm 545 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>Linseed Oil</td>
<td>8001-26-1</td>
<td>TWA (mist - total)</td>
<td>10 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (mist - respirable)</td>
<td>5 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), heavy arom.</td>
<td>64742-94-5</td>
<td>TWA</td>
<td>500 ppm 2,000 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 mg/m3 (as total hydrocarbon vapor)</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>TWA</td>
<td>10 ppm</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
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Hazardous components without workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc octaate</td>
<td>136-53-8</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>Xyline</td>
<td>1330-20-7</td>
<td>Methylhippuric acids</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>1.5 g/l creatinine</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>Sum of mandelic acid and phenyl glyoxylic acid</td>
<td>Urine</td>
<td>End of shift at end of work-week</td>
<td>0.7 g/l creatinine</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Engineering measures

Processing may form hazardous compounds (see section 10).
Minimize workplace exposure concentrations.
Use only in an area equipped with explosion proof exhaust ventilation.
Use with local exhaust ventilation.

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

: Antistatic gloves
  Impervious gloves
  Flame retardant gloves

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 goggles

Skin and body protection

: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
  Wear the following personal protective equipment:
  Flame retardant antistatic protective clothing.
  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

: brown

Odor

: solvent

Odor Threshold

: No data available

pH

: No data available
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MELTING POINT/FREEZING POINT
- No data available

INITIAL BOILING POINT AND BOILING RANGE
- > 130 °C

FLASH POINT
- 25 °C
  Method: Pensky-Martens closed cup

EVAPORATION RATE
- No data available

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
- 1.002

SOLUBILITY(IES)
  WATER SOLUBILITY
- No data available

PARTITION COEFFICIENT: n-OCTANE/WATER
- No data available

AUTIGNITION TEMPERATURE
- No data available

THERMAL DECOMPOSITION
- No data available

VISCOITY
  VISCOSITY, KINEMATIC
- 105 cSt

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 REACT-
- Flammable liquid and vapor.
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Vapors may form explosive mixture with air.
Can react with strong oxidizing agents.
When heated to temperatures above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapors.
Safe handling conditions may be maintained by keeping vapor concentrations within the occupational exposure limit for formaldehyde.
Formaldehyde may cause cancer. It is also toxic by inhalation, skin absorption and ingestion, corrosive to skin and eyes, and may cause skin sensitization and respiratory irritation.
See OSHA formaldehyde standard, 29 CFR 1910.1048
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid:
- Handling operations that can promote accumulation of static charges.
- Heat, flames and sparks.

Incompatible materials:
- Oxidizing agents

Hazardous decomposition products:
- 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: 26.17 mg/l
  - Exposure time: 4 h
  - Test atmosphere: vapor
  - Method: Calculation method

- Acute dermal toxicity:
  - Acute toxicity estimate: 3,142 mg/kg
  - Method: Calculation method

Ingredients:
- Xylene:
  - Acute oral toxicity:
    - LD50 (Rat): 4,300 mg/kg
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</table>


**Acute inhalation toxicity**
- **Acute toxicity estimate:** 11 mg/l
- **Test atmosphere:** vapor
- **Method:** Expert Judgment
- **Remarks:** Based on harmonised classification in EU regulation 1272/2008, Annex VI

**Acute dermal toxicity**
- **Acute toxicity estimate:** 1,100 mg/kg
- **Method:** Expert Judgment
- **Remarks:** Based on harmonised classification in EU regulation 1272/2008, Annex VI

**Ethylbenzene:**

- **Acute oral toxicity**
  - LD50 (Rat): 3,500 mg/kg

- **Acute inhalation toxicity**
  - LC50 (Rat): 17.2 mg/l
  - **Exposure time:** 4 h
  - **Test atmosphere:** vapor

- **Acute dermal toxicity**
  - LD50 (Rabbit): > 5,000 mg/kg

**Solvent naphtha (petroleum), heavy arom.:**

- **Acute oral toxicity**
  - LD50 (Rat): > 5,000 mg/kg

- **Acute inhalation toxicity**
  - LC50 (Rat): > 5.28 mg/l
  - **Exposure time:** 4 h
  - **Test atmosphere:** vapor
  - **Assessment:** The substance or mixture has no acute inhalation toxicity

- **Acute dermal toxicity**
  - LD50 (Rabbit): > 2,000 mg/kg
  - **Assessment:** The substance or mixture has no acute dermal toxicity

**Naphthalene:**

- **Acute oral toxicity**
  - LD50 (Mouse): 553 mg/kg
  - **Method:** OECD Test Guideline 401

- **Acute inhalation toxicity**
  - LC50 (Rat): > 0.4 mg/l
  - **Exposure time:** 4 h
  - **Test atmosphere:** vapor
  - **Method:** OECD Test Guideline 403
  - **Assessment:** The substance or mixture has no acute inhalation toxicity

- **Acute dermal toxicity**
  - LD50 (Rat): > 2,500 mg/kg
  - **Assessment:** The substance or mixture has no acute dermal toxicity

**Zinc octoate:**

- **Acute oral toxicity**
  - LD50 (Rat): > 2,000 mg/kg
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Remarks: Based on data from similar materials

Acute inhalation toxicity: LC50 (Rat): > 23.2 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist

Acute dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation
Causes skin irritation.

Ingredients:

Xylene:
Species: Rabbit
Result: Skin irritation

Solvent naphtha (petroleum), heavy arom.:
Assessment: Repeated exposure may cause skin dryness or cracking.

Naphthalene:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Zinc octoate:
Species: Guinea pig
Result: Skin irritation

Serious eye damage/eye irritation
Causes eye irritation.

Ingredients:

Xylene:
Species: Rabbit
Result: Irritation to eyes, reversing within 7 days

Ethylbenzene:
Species: Rabbit
Result: No eye irritation

Solvent naphtha (petroleum), heavy arom.:
Species: Rabbit
Result: No eye irritation

Naphthalene:
Species: Guinea pig
Result: No eye irritation
Method: OECD Test Guideline 405

Zinc octoate:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405
Remarks: Based on data from similar materials

Respiratory or skin sensitization
Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

Ingredients:
Xylene:
Test Type: Local lymph node assay (LLNA)
Routes of exposure: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: negative

Ethylbenzene:
Test Type: Human repeat insult patch test (HRIPPT)
Routes of exposure: Skin contact
Result: negative

Solvent naphtha (petroleum), heavy arom.:
Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

Naphthalene:
Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Zinc octoate:
Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative
Remarks: Based on data from similar materials

Germ cell mutagenicity
Not classified based on available information.

Ingredients:
Xylene:
Genotoxicity in vitro: Test Type: Chromosome aberration test in vitro
Result: negative

: Test Type: In vitro sister chromatid exchange assay in mammalian cells
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</table>

**Result:** negative

### Genotoxicity in vivo
- **Test Type:** Rodent dominant lethal test (germ cell) (in vivo)
- **Test species:** Mouse
- **Application Route:** Skin contact

### Ethylbenzene:
- **Genotoxicity in vitro**
  - **Test Type:** Chromosome aberration test in vitro
  - **Result:** negative
  - **Test Type:** In vitro mammalian cell gene mutation test
    - **Method:** OECD Test Guideline 476
    - **Result:** negative

### Genotoxicity in vivo
- **Test Type:** Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo
- **Test species:** Mouse
- **Application Route:** Inhalation
- **Method:** OECD Test Guideline 486
- **Result:** negative

### Linseed Oil:
- **Genotoxicity in vitro**
  - **Test Type:** Bacterial reverse mutation assay (AMES)
  - **Result:** negative

### Solvent naphtha (petroleum), heavy arom.:
- **Genotoxicity in vitro**
  - **Test Type:** Bacterial reverse mutation assay (AMES)
  - **Result:** negative

### Genotoxicity in vivo
- **Test Type:** Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
- **Test species:** Rat
- **Application Route:** Intraperitoneal injection
- **Result:** negative

### Naphthalene:
- **Genotoxicity in vitro**
  - **Test Type:** Bacterial reverse mutation assay (AMES)
  - **Result:** negative

### Genotoxicity in vivo
- **Test Type:** Chromosome aberration test in vitro
  - **Result:** positive

### Genotoxicity in vivo
- **Test Type:** Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo
- **Test species:** Rat
- **Application Route:** Ingestion
- **Result:** negative

### Zinc octoate:
- **Genotoxicity in vitro**
  - **Test Type:** Bacterial reverse mutation assay (AMES)
  - **Result:** negative
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Genotoxicity in vivo

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Test species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Carcinogenicity
Suspected of causing cancer.

Ingredients:
Xylene:
Species: Rat
Application Route: Ingestion
Exposure time: 103 weeks
Result: negative

Ethylbenzene:
Species: Rat
Application Route: Inhalation
Exposure time: 104 weeks
Result: positive
Remarks: The mechanism or mode of action may not be relevant in humans.

Solvent naphtha (petroleum), heavy arom.:  
Species: Rat
Application Route: Inhalation (vapor)
Exposure time: 105 weeks
Result: positive
Remarks: Based on data from similar materials

Carcinogenicity - Assessment
Limited evidence of carcinogenicity in animal studies

Naphthalene:
Species: Rat
Application Route: Inhalation (vapor)
Exposure time: 105 weeks
Result: positive

Carcinogenicity - Assessment
Limited evidence of carcinogenicity in animal studies

IARC
Group 2B: Possibly carcinogenic to humans

Ethylbenzene 100-41-4
Naphthalene 91-20-3

OSHA
No ingredient of this product present at levels greater than or
DOW CORNING(R) RSN-0997 RESIN

equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

Reproductive toxicity
Suspected of damaging fertility or the unborn child.

Ingredients:

Xyylene:
Effects on fertility: Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor)
Result: negative

Effects on fetal development: Test Type: Embryo-fetal development
Species: Rat
Application Route: inhalation (vapor)
Result: negative

Ethylbenzene:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor)
Method: OECD Test Guideline 415
Result: negative

Effects on fetal development: Test Type: Embryo-fetal development
Species: Rat
Application Route: Inhalation
Method: OECD Test Guideline 414
Result: negative

Solvent naphtha (petroleum), heavy arom.:
Effects on fertility: Test Type: Fertility
Species: Rat
Application Route: Ingestion
Result: negative

Effects on fetal development: Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

Naphthalene:
Effects on fetal development: Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
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Result: negative

Zinc octoate:
Effects on fertility
  Test Type: Two-generation reproduction toxicity study
  Species: Rat
  Application Route: Ingestion
  Result: positive
  Remarks: Based on data from similar materials

Effects on fetal development
  Test Type: Embryo-fetal development
  Species: Rabbit
  Application Route: Ingestion
  Result: positive
  Remarks: Based on data from similar materials

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

STOT-single exposure
May cause respiratory irritation.

Ingredients:
Xylene:
  Assessment: May cause respiratory irritation.

Solvent naphtha (petroleum), heavy arom.:
  Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure
May cause damage to organs (Central nervous system, Liver, Kidney, Auditory system) through prolonged or repeated exposure.

Ingredients:
Xylene:
  Routes of exposure: inhalation (vapor)
  Target Organs: Central nervous system, Liver, Kidney
  Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

Ethylbenzene:
  Routes of exposure: inhalation (vapor)
  Target Organs: Auditory system
  Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

Solvent naphtha (petroleum), heavy arom.:
  Routes of exposure: Ingestion
  Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

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

Repeated dose toxicity

Ingredients:

Xylene:
Species: Rat
NOAEL: 4.35 mg/l
Application Route: inhalation (vapor)
Exposure time: 90 d

Ethylbenzene:
Species: Rat, female
LOAEL: 75 ppm
Application Route: inhalation (vapor)
Exposure time: 104 w

Solvent naphtha (petroleum), heavy arom.:
Species: Rat
NOAEL: 750 mg/kg
Application Route: Ingestion
Exposure time: 21 w

Naphthalene:
Species: Mouse
NOAEL: 133 mg/kg
Application Route: Ingestion
Exposure time: 90 d
Method: OECD Test Guideline 408

Species: Rat
NOAEL: 0.011 mg/l
Application Route: Inhalation (vapor)
Exposure time: 13 w
Method: OECD Test Guideline 413

Species: Rat
NOAEL: 306 mg/kg
Application Route: Skin contact
Exposure time: 13 w
Method: OECD Test Guideline 411

Zinc octoate:
Species: Rat
NOAEL: 234 mg/kg
Application Route: Ingestion
Exposure time: 90 d
Method: OECD Test Guideline 408
Remarks: Based on data from similar materials
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Aspiration toxicity
Not classified based on available information.

Ingredients:
Xylene:
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Ethylbenzene:
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Solvent naphtha (petroleum), heavy arom.:
The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:
Xylene:
Toxicity to fish: LC50 (Onchorhynchus mykiss (rainbow trout)): 13.6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 3.2 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae: EC50 (Selenastrum capricornutum (green algae)): 3.2 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials

Toxicity to bacteria: EC50: > 157 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Ethylbenzene:
Toxicity to fish: LC50 (Onchorhynchus mykiss (rainbow trout)): 4.2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 1.8 - 2.4 mg/l
Exposure time: 48 h

Toxicity to algae: EC50 (Pseudokirchneriella subcapitata (green algae)): 5.4 mg/l
Exposure time: 72 h
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</table>

#### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
- NOEC (Ceriodaphnia dubia (water flea)): 0.96 mg/l
  - Exposure time: 7 d

#### Toxicity to bacteria
- EC50 (Nitrosomonas sp.): 96 mg/l
  - Exposure time: 24 h
  - Method: OECD Test Guideline 209

#### Solvent naphtha (petroleum), heavy arom.

#### Toxicity to fish
- LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l
  - Exposure time: 96 h
  - Test substance: Water Accommodated Fraction
  - Method: OECD Test Guideline 203

#### Toxicity to daphnia and other aquatic invertebrates
- EL50 (Daphnia magna (Water flea)): 1.4 mg/l
  - Exposure time: 48 h
  - Test substance: Water Accommodated Fraction
  - Method: OECD Test Guideline 202

#### Toxicity to algae
- EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l
  - Exposure time: 72 h
  - Test substance: Water Accommodated Fraction
  - Method: OECD Test Guideline 201

#### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
- NOELR (Daphnia magna (Water flea)): 0.48 mg/l
  - Exposure time: 21 d
  - Test substance: Water Accommodated Fraction

#### Naphthalene:

#### Toxicity to fish
- LC50 (Pimephales promelas (fathead minnow)): 6.06 mg/l
  - Exposure time: 96 h

#### Toxicity to daphnia and other aquatic invertebrates
- EC50 (Daphnia magna (Water flea)): 2.16 mg/l
  - Exposure time: 48 h
  - Method: OECD Test Guideline 202

#### Toxicity to algae
- EC50 (Skeletonema costatum (marine diatom)): 0.4 mg/l
  - Exposure time: 72 h

#### M-Factor (Acute aquatic toxicity)
- 1

#### Toxicity to fish (Chronic toxicity)
- NOEC (Oncorhynchus kisutch (coho salmon)): 0.37 mg/l
  - Exposure time: 40 d

#### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
- NOEC (Daphnia pulex (Water flea)): 0.59 mg/l
  - Exposure time: 125 d

#### Toxicity to bacteria
- IC50 (Nitrosomonas sp.): 29 mg/l
  - Exposure time: 24 h
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Zinc octoate:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 0.78 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 1.22 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae: NOEC (Pseudokirchneriella subcapitata (green algae)): 5.2 µg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity): 1

Toxicity to fish (Chronic toxicity): NOEC (Oncorhynchus mykiss (rainbow trout)): 0.199 mg/l
Exposure time: 30 d
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 0.048 - 0.158 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity): 1

Persistence and degradability

Ingredients:
Xylene:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 87.8 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Ethylbenzene:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 70 - 80 %
Exposure time: 28 d

Naphthalene:
Biodegradability: Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 4 Weeks
Method: OECD Test Guideline 302
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Zinc octoate:
Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
Remarks: Based on data from similar materials

Bioaccumulative potential

Ingredients:

Xylene:
Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 5.4 - 25.9
Partition coefficient: n-octanol/water
log Pow: 3.12 - 3.2

Ethylbenzene:
Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): < 100
Remarks: Based on data from similar materials
Partition coefficient: n-octanol/water
log Pow: 3.6

Naphthalene:
Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 36.5 - 168
Method: OECD Test Guideline 305
Partition coefficient: n-octanol/water
log Pow: 3.4

Zinc octoate:
Partition coefficient: n-octanol/water
log Pow: > 5.7

Mobility in soil
No data available

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Resource Conservation and Recovery Act (RCRA) : When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.
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Waste Code: D001: Ignitability
             D018

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. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG
UN number: UN 1993
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Ethylbenzene, Xylene)
Class: III
Packing group: III
Labels: 3

IATA-DGR
UNID No.: UN 1993
Proper shipping name: Flammable liquid, n.o.s. (Ethylbenzene, Xylene)
Class: III
Packing group: III
Labels: Flammable Liquids
Packing instruction (cargo aircraft): 366
Packing instruction (passenger aircraft): 355

IMDG-Code
UN number: UN 1993
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Ethylbenzene, Xylene)
Class: III
Packing group: III
Labels: 3
EmS Code: F-E, S-E
Marine pollutant: no

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

Domestic regulation

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- **UN/ID/NA number**: UN 1993  
- **Proper shipping name**: FLAMMABLE LIQUIDS, N.O.S.  
  (Ethylbenzene, Xylene)  
- **Class**: 3  
- **Packing group**: III  
- **Labels**: FLAMMABLE LIQUID  
- **ERG Code**: 128  
- **Marine pollutant**: no

### 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>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>100</td>
<td>286</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>1000</td>
<td>9091</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>100</td>
<td>21739</td>
</tr>
</tbody>
</table>

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

- **SARA 311/312 Hazards**: Fire Hazard, 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**: The following components are subject to reporting levels established by SARA Title III, Section 313:
  - **Xylene**: 1330-20-7, 35 %
  - **Ethylbenzene**: 100-41-4, 11 %
  - **Naphthalene**: 91-20-3, 0.46 %

**US State Regulations**

**Pennsylvania Right To Know**

- **Dimethyl, methyl, phenyl, phenylmethyl silicone resin**: 68037-66-1, 30 - 50 %
- **Xylene**: 1330-20-7, 30 - 60 %
- **Ethylbenzene**: 100-41-4, 10 - 20 %
- **Linseed Oil**: 8001-26-1, 1 - 5 %
- **Solvent naphtha (petroleum), heavy arom.**: 64742-94-5, 1 - 5 %
- **Naphthalene**: 91-20-3, 0.1 - 1 %
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Toluene 108-88-3 0 - 0.1 %
1,2,4-Trimethylbenzene 95-63-6 0 - 0.1 %
2-(2-Butoxyethoxy)ethanol 112-34-5 0 - 0.1 %

New Jersey Right To Know

Dimethyl, methyl, phenyl, phenylmethyl silicone resin 68037-66-1 30 - 50 %
Xylene 1330-20-7 30 - 50 %
Ethylbenzene 100-41-4 10 - 20 %
Linseed Oil 8001-26-1 1 - 5 %
Solvent naphtha (petroleum), heavy arom. 64742-94-5 1 - 5 %
Naphthalene 91-20-3 0.1 - 1 %

California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer.
Ethylbenzene 100-41-4
Naphthalene 91-20-3
Aniline 62-53-3

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm:
Toluene 108-88-3

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

TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

PICCS : All ingredients listed or exempt.

KECI : All ingredients listed, exempt or notified.

ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from inventory listing.

IECSC : All ingredients listed or exempt.

AICS : 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).

REACH : Consult your local Dow Corning office.

Inventories

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

Further information

NFPA:

HMIS III:

HEALTH 3*

FLAMMABILITY 3

PHYSICAL HAZARD 0

0 = not significant; 1 = Slight; 2 = Moderate; 3 = High; 4 = Extreme; * = Chronic

Special hazard.

Full text of other abbreviations

ACGIH : USA, ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA, NIOSH Recommended Exposure Limits
OSHA Z-1 : USA, Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
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

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


Revision Date: 12/16/2014

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 when the SDS material is used in combination with any other materials 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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