SECTION 1. IDENTIFICATION

Product name: SYLGARD(R) 184 SILICONE ELASTOMER KIT (CURING AGENT information is below)

Product code: 000000000001064291

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: Vulcanising agents

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Not a hazardous substance or mixture.

GHS label elements
Not a hazardous substance or mixture.
Precautionary Statements:
Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P234 Keep only in original container.

Storage:
P403 Store in a well-ventilated place.

Other hazards
May generate flammable hydrogen gas. Avoid contact with water, alcohols, acidic, basic, or oxidizing materials.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture
Chemical nature: Silicone resin solution

Hazardous ingredients
No hazardous ingredients
SECTION 4. FIRST AID MEASURES

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

In case of skin contact
: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

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.

Most important symptoms and effects, both acute and delayed
: None known.

Protection of first-aiders
: No special precautions are necessary for first aid responders.

Notes to physician
: Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

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

Unsuitable extinguishing media
: Dry chemical

Specific hazards during firefighting
: Exposure to combustion products may be a hazard to health. Applying foam will release significant amounts of hydrogen gas that can be trapped under the foam blanket.

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. Do not allow extinguishing medium to contact container contents. Most fire extinguishing media will cause hydrogen evolution, and once the fire is put out, may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must
**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**
- Wear self-contained breathing apparatus for firefighting if necessary.
- Use personal protective equipment.

**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**
- Soak up with inert absorbent material.
- 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.
- Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container.
- 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**
- See Engineering measures under EXPOSURE CONTROLS/PERSOAL PROTECTION section.

**Local/Total ventilation**
- Use only with adequate ventilation.

**Advice on safe handling**
- Handle in accordance with good industrial hygiene and safety practice.
- Keep away from water.
- Protect from moisture.
- Take care to prevent spills, waste and minimize release to the environment.
- Be disposed of in accordance with local regulations.
- Remove undamaged containers from fire area if it is safe to do so.
- Evacuate area.

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**SAFETY DATA SHEET**

**SYLGARD(R) 184 SILICONE ELASTOMER KIT**
(CURING AGENT information is below)

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**Version** 5.0  **Revision Date:** 05/25/2016  **SDS Number:** 743649-00008  **Date of last issue:** 04/08/2016  **Date of first issue:** 11/12/2014
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SYLGARD(R) 184 SILICONE ELASTOMER KIT
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Conditions for safe storage:
- Keep in properly labeled containers.
- Store in original container.
- Store in a closed container.
- Store in accordance with the particular national regulations.
- Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines.
- Do not repackage. Clogged container vents may increase pressure build up.

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

Packaging material:
- Unsuitable material: Do not store in or use containers except the original product package.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters:
Contains no substances with occupational exposure limit values.

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:
- No personal respiratory protective equipment normally required.

Hand protection:

Remarks:
- Wash hands before breaks and at the end of workday.

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

Skin and body protection:
- Skin should be washed after contact.

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
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : slight

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : > 100 °C

Flash point : > 101.1 °C
  Method: 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 : 1.03

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, kinematic : 110 cSt

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

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Contact with water liberates highly flammable gases.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Can react with strong oxidizing agents. Product may evolve flammable hydrogen gas on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in air. 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 at elevated temperatures.

Conditions to avoid : Exposure to moisture.
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.

Skin corrosion/irritation
Not classified based on available information.

Serious eye damage/eye irritation
Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization
Not classified based on available information.
Respiratory sensitization
- Not classified based on available information.

Germ cell mutagenicity
- Not classified based on available information.

Carcinogenicity
- Not classified based on available information.
  
  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
- Not classified based on available information.

STOT - single exposure
- Not classified based on available information.

STOT - repeated exposure
- Not classified based on available information.

Aspiration toxicity
- Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
- No data available

Persistence and degradability
- No data available

Bioaccumulative potential
- No data available

Mobility in soil
- No data available

Other adverse effects
- No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
- Resource Conservation and : When a decision is made to discard this material as supplied,
Recovery Act (RCRA) it is classified as a RCRA hazardous waste.
Waste Code : D003: Reactivity
Waste from residues : Dispose of in accordance with local regulations.
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good
Remarks : VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

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</th>
<th>Calculated product RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(lbs)</td>
<td>(lbs)</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>100</td>
<td>52632</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>1000</td>
<td>*</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1000</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 : No SARA Hazards

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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl, Methylhydrogen Siloxane, Trime-thylsiloxy-terminated</td>
<td>68037-59-2</td>
</tr>
<tr>
<td>Dimethyl Siloxane, Dimethylvinylsiloxoy-terminated</td>
<td>68083-19-2</td>
</tr>
<tr>
<td>Dimethylvinylated and trimethylated silica</td>
<td>68988-89-6</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
</tbody>
</table>

California Prop. 65

- WARNING! This product contains a chemical known in the State of California to cause cancer.
  - Ethylbenzene 100-41-4
- 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:

NZIoC
All ingredients listed or exempt.

REACH
For purchases from Dow Corning EU legal entities, all ingredients are currently pre/registered or exempt under REACH. For purchases from non-EU Dow Corning legal entities with the intention to export into EEA please contact your DC representative/local office.

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).

TCSI
All ingredients listed or exempt.
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SECTION 16. OTHER INFORMATION

Further information

NFPA: Health Flammability Instability

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

Special hazard.

HMIS III: HEALTH FLAMMABILITY PHYSICAL HAZARD

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations;
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UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative


Revision Date: 05/25/2016

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 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.

US / Z8