SYLGARD(R) 184 SILICONE ELASTOMER KIT

(BASE information is below)

Revision Date 10/20/2016

SECTION 1. IDENTIFICATION

SYLGARD(R) 184 SILICONE ELASTOMER KIT (BASE in-formation is helow)

Product code 0000000000001064291

Manufacturer or supplier's details

Company name of supplier

Dow Corning Corporation South Saginaw Road Midland Michigan 48686

Address

(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

Corrosion inhibitors Electrical industry and electronics

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200 Not a hazardous substance or mixture

GHS label elements

Not a hazardous substance or mixture

Other hazards

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Silicone

Chemical nature

Hazardous ingredients Concentration (% w/w)

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.

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for fire-fighters		Use personal p			
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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-tive equipment and emer-gency 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 containment and cleaning up

Soak up with inert absorbent material For large splfts, provide diking or other appropriate containment to keep material from spreading If diked material can be pumped, store recovered material in appropriate container.

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

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section

Local/Total ventilation

Use only with adequate ventilation

Advice on safe handling

Avoid inhalation of vapor or mist.
Do not swallow
Avoid contact with eyes
Avoid prolonged or repeated contact with skin
Handle in accordance with good industrial hygiene and safety

practice. Take care to prevent spills, waste and minimize release to the

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

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In case of skin contact

In case of eye contact

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If inhaled, remove to fresh air Get medical attention.

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

Flush eyes with water as a precaution. Get medical attention if irritation develops and persists

If swallowed, DO NOT induce vomiting

Get medical attention Rinse mouth thoroughly with water

Most important symptoms and effects, both acute and delayed

If swallowed

If inhaled

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

Exposure to combustion products may be a hazard to health

Specific hazards during fire fighting

Carbon oxides

Hazardous combustion prod-ucts

Formaldehyde

Specific extinguishing meth-

Use extinguishing measures that are appropriate to local cir-cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do

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Evacuate area In the event of fire, wear self-contained breathing apparatus Special protective equipment

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Ingredients	CAS-No	(Form of exposure)	Control parame- ters / Permissible concentration	Basis
Ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m³	OSHA Z-1
		TWA	100 ppm 435 mg/m³	NIOSH REL
		ST	125 ppm 545 mg/m³	NIOSH REL

Ingredients	CAS-No	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl gly- oxylic acid	Unne	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI

Engineering measures

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

Respiratory protection

Skin and body protection

No personal respiratory protective equipment normally required.

Hand protection Material

Chemical-resistant 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 differentiation of protective gloves with the glove nanufacturer. Wash hands before breaks and at the end of workday.

Eve protection

Wear the following personal protective equipment Safety glasses

Select appropriate protective clothing based on chemical

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STOT-repeated exposure

Not classified based on available information

Ingredients:

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
Imp@Civid.

Repeated dose toxicity

Ingredients:

Ethylbenzene:

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

Aspiration toxicity

Not classified based on available information.

ingredients:

Ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be re-garded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Ethylbenzene

oxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) 4.2 mg/l Exposure time 96 h Method: OECD Test Guideline 203

Toxicity to daphnia and other

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

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

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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

UN 3082

Environmentally hazardous substance, liquid, n.o.s. (Xylene)

Packing group CLASS 9 171

Labels ERG Code Marine pollutant Remarks

THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS THE REPORTABLE QUANTITY.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)	
Xylene Ethylbenzene	1330-20-7	100	20408	
Ethylbenzene	100-41-4	1000		
Toluene	108-88-3	1000	•	

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 302 Extremely Hazardous Substances Threshold Planning Quantity

|| This material does not contain any components with a section 302 EHS TPQ

SARA 311/312 Hazards

No SARA Hazards

The following components are subject to reporting levels established by SARA Title III, Section 313

Ethylbenzene

100-41-4

01-1%

US State Regulations

Pennsylvania Right To Know

Dimethyl Siloxane, Dimethylvinylsiloxy-terminated 11/14

68083-19-2

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Toxicity to microorganisms

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

Persistence and degradability

Ingredients:

Ethylbenzene Rodegradability

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

Bioaccumulative potential

Ingredients:

Ethylbenzene

Bioaccumulation

Species: Fish Bioconcentration factor (BCF) < 100 Remarks: Based on data from similar materials

log Pow 36

Partition coefficient: n-octanol/water

Mobility in soil No data available

Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Resource Conservation and Recovery Act (RCRA)

Contaminated packaging

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

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

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Dimethylvinylated and trimethylated silica

Ethylbenzene

68988-89-6 1330-20-7

Ethylbenzene

100.41.4 108-89.3 WARNING! This product contains a chemical known in the State of California to cause cancer 100.41.4 WARNING. This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. 108-88-3

The ingredients of this product are reported in the following inventories: NZIoC : All ingredients listed or exempt

For purchases from Dow Corning EU legal entities, all ingredients are currently prefer existence or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Corning legal entities with the intention to export into EEA please contact your DC representative/local office. IREACH

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory TSCA PICCS

KECL All ingredients listed, exempt or notified. All components are listed on ENCS/ISHL or exempted from inventory listing. ENCS/ISHL

All ingredients listed or exempt

IECSC All ingredients listed or exempt AICS All ingredients listed or exempt.

TCSI

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). DSL

All ingredients listed or exempt.

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be disposed of in accordance with local regulations. Remove undamaged containers from fire area if it is safe to do

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-tive equipment and emer-gency procedures

Follow safe handling advice and personal protective equipment recommendations.

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).

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

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 potentials 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/PERSONAL PROTECTION section.

Use only with adequate ventilation

Local/Total ventilation Advice on safe handling

Handle in accordance with good industrial hygiene and safety

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

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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 Color

Odor Threshold

liquid colorless slight

Odor

No data available

No data available

Melting point/freezing point Initial boiling point and boiling No data available > 100 °C

Flash point

> 101.1 °C Method: closed cup No data available Not applicable

Evaporation rate Flammability (solid, gas) Self-ignition

The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.

Upper explosion limit

Lower explosion limit Vapor pressure

No data available No data available

Relative density

No data available

Solubility(ies) Water solubility

No data available

Partition coefficient n-octanol/water

No data available

Autoignition temperature Decomposition temperature No data available No data available

Viscosity

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Packaging material

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environment

Conditions for safe storage

Keep in properly labeled containers.
Store in original container
Store in a closed container
Store in a corordance with the particular national regulations.
Product may evolve minute quantities of flammable hydrogen as which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage Clegged container vents may increase pressure build up.

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

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

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

Hygiene measures

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

Selfs stollar by extractive activities. Ensure that eye flushing systems and safety showers are located close to the working place. When using do not ead, drink or smoke. When using do not ead, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerose/spray applications may require added precautions. For further information regarding the use of silicones 1 organic cities in consumer aeroseid applications, please refer to the guidance document regarding the use of these type of

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Viscosity, kinematic

110 cSt

Explosive properties

Not explosive

Oxidizing properties Molecular weight

The substance or mixture is not classified as oxidizing 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 reac-

Can react with strong oxidizing agents
Product may evolve flammable hydrogen gas on contact with
water, alcohols, acide or basic materials, many metals or metallic compounds and can form explosive motures in air.
When heated to temperatures above 100 °C (355 °F) in the presence of air, trace quantities of formaldehyde may be re-leased.
Adequate ventilation is required. 29 CFR 1910 1048
See OSHA formaldehyde standard, 29 CFR 1910 1048
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid

Exposure to moisture Oxidizing agents

Incompatible materials

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

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(O)SAR - (Quantitative) Structure Activity Relationship, RCRA - Resource Conservation and Receivery Act. REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, RO. Reportable Quantity, SADT - Self-Accelerating Decomposition Temperature, SARA - Superfund Amendments and Reauthorization Act, SDS - Safety Data Sheet, TCSI - Tawar Chemical Substance Inventory, TSCA - Toxic Substances Control Act (United States), UN - United Nations, UNRTOG - Untel Nations Recommendations on the Transport of Dangerous Goods, YPVB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet Internal technical data, data from raw material SDSs, QECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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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.

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