

# **DOW CORNING(R) HIGH VACUUM GREASE**

Version Revision Date: SDS Number: Date of last issue: 2017/07/19 6.0 2017/09/13 756251-00009 Date of first issue: 2014/11/17

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) HIGH VACUUM GREASE

Product code : 0000000001018817

#### Recommended use of the chemical and restrictions on use

Recommended use : Lubricants and lubricant additives

Restrictions on use : We recommend that you use this product in a manner con-

sistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical

service representative.

### Manufacturer or supplier's details

Company : Dow Corning Korea Ltd.

Address : 24 Gwanghyewon Sandan-Gil, Gwanghyewon-Myeon, Jin-

cheon-Gun, Chungcheongbuk-Do, Korea

Telephone : 043-539-1114

Emergency telephone number : 043-539-1129

#### 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the MSDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

#### **GHS** label elements

Hazard pictograms : Not applicable

Signal word : Not applicable

Hazard statements : Not applicable

Precautionary statements : Prevention:

P264 Wash the contact area thoroughly after handling.

Disposal:

P501 Dispose of contents and container according to wastes

control act.

#### Other hazards which do not result in classification

No data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS





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Substance / Mixture Mixture

Chemical nature Silicone compound

### Components

Chemical name	Common	CAS-No.	Concentration (%
	Name		w/w)
Silicon dioxide	Silica	7631-86-9	>= 1 - < 10
Silicone Metalloid Complex	Proprietary Ingredient	Proprietary Ingredient	>= 1 - < 10
Dimethyl siloxane, trimethylsiloxy- terminated	Siloxanes and Silicones, di- Me	63148-62-9	>= 80 - < 90

#### 4. FIRST AID MEASURES

In case of eye contact Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

In case of skin contact Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

If inhaled If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

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.

#### 5. FIREFIGHTING MEASURES

#### Suitable and unsuitable extinguishing media

Suitable extinguishing media Water spray

> Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards during fire-

Exposure to combustion products may be a hazard to health.

fighting

Hazardous combustion prod- : Carbon oxides



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ucts Silicon oxides Formaldehyde

Boron oxides

Specific extinguishing meth-

ods

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

SO.

Evacuate area.

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary

Use personal protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective equip-

ment recommendations.

Environmental precautions

Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
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 dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

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 deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

# 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 : Handle in accordance with good industrial hygiene and safety

practice, based on the results of the workplace exposure as-

sessment

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

environment.





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Conditions for safe storage : Keep in properly labelled containers.

Store in accordance with the particular national regulations.

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

Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Silicon dioxide	7631-86-9	TWA	10 mg/m3	KR OEL

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Silicon dioxide

Engineering measures : Processing may form hazardous compounds (see section

10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Eye protection : Wear the following personal protective equipment:

Safety glasses

Hand protection

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

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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Grease



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Colour : white, translucent

Odour : none

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Initial boiling point and boiling

range

Not applicable

Flash point :  $> 250 \, ^{\circ}\text{C}$ 

Method: Seta closed cup

Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard

Self-ignition : The substance or mixture is not classified as pyrophoric. The

substance or mixture is not classified as self heating.

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : Not applicable

Solubility(ies)

Water solubility : No data available

Relative vapour density : No data available

Relative density : 1.1

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : 2000000 cSt (25 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available



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Particle size : No data available

#### 10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions

Not classified as a reactivity hazard. Stable under normal conditions.

Use at elevated temperatures may form highly hazardous

compounds.

Can react with strong oxidizing agents.

Hazardous decomposition products will be formed at elevated

temperatures.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products

Thermal decomposition : Formaldehyde

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of:

exposure

Skin contact Ingestion Eye contact

**Health hazard information** 

**Acute toxicity** 

**Components:** 

Silicon dioxide:

Acute oral toxicity : LD50 (Rat): > 3,300 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Remarks: Information taken from reference works and the

literature.

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Information taken from reference works and the

literature.

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

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Information taken from reference works and the

literature.



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#### Silicone Metalloid Complex:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

#### Dimethyl siloxane, trimethylsiloxy-terminated:

Acute oral toxicity : LD50 (Rat): > 50 ml/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Remarks: On basis of test data.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: On basis of test data.

#### Skin corrosion/irritation

#### Components:

### Silicon dioxide:

Result: No skin irritation

Remarks: Information taken from reference works and the literature.

#### **Silicone Metalloid Complex:**

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

# Dimethyl siloxane, trimethylsiloxy-terminated:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

#### Serious eye damage/eye irritation

### **Components:**

#### Silicon dioxide:

Result: No eye irritation

Remarks: Information taken from reference works and the literature.

#### Silicone Metalloid Complex:

Species: Rabbit

Result: No eye irritation



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Remarks: Based on data from similar materials

#### Dimethyl siloxane, trimethylsiloxy-terminated:

Species: Rabbit Result: No eye irritation

Remarks: On basis of test data.

# Respiratory or skin sensitisation

#### **Components:**

#### Silicon dioxide:

Assessment: Does not cause skin sensitisation.

Test Type: Skin: test type not specified

Species: Guinea pig Result: negative

Remarks: Information taken from reference works and the literature.

### Silicone Metalloid Complex:

Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test

Species: Guinea pig

Remarks: Based on data from similar materials

#### Dimethyl siloxane, trimethylsiloxy-terminated:

Assessment: Does not cause skin sensitisation.

Test Type: Buehler Test Species: Guinea pig Result: negative

Remarks: On basis of test data.

Test Type: Maximisation Test

Species: Guinea pig Result: negative

Remarks: On basis of test data.

#### Carcinogenicity

No data available

#### Germ cell mutagenicity

#### **Components:**

### Silicon dioxide:

Genotoxicity in vitro : Result: negative

Remarks: Information taken from reference works and the

literature.

Genotoxicity in vivo : Application Route: Ingestion



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Result: negative

Remarks: Information taken from reference works and the

literature.

Germ cell mutagenicity- As-

sessment

Animal testing did not show any mutagenic effects.

#### Dimethyl siloxane, trimethylsiloxy-terminated:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: On basis of test data.

#### Reproductive toxicity

### **Components:**

# Dimethyl siloxane, trimethylsiloxy-terminated:

Effects on fertility : Species: Rat

Application Route: Ingestion Symptoms: No effects on fertility Remarks: On basis of test data.

Effects on foetal develop-

ment

Species: Rat

Application Route: Ingestion

Symptoms: No effects on foetal development

Remarks: On basis of test data.

Reproductive toxicity - As-

sessment

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

#### STOT - single exposure

No data available

STOT - repeated exposure

#### **Components:**

# Dimethyl siloxane, trimethylsiloxy-terminated:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg

bw or less.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg

bw or less.

#### Repeated dose toxicity

#### Components:

#### Dimethyl siloxane, trimethylsiloxy-terminated:

Species: Rat

Application Route: Ingestion Remarks: On basis of test data.



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Species: Rat

Application Route: Skin contact Remarks: On basis of test data.

#### **Aspiration toxicity**

No data available

#### **Experience with human exposure**

No data available

#### Toxicology, Metabolism, Distribution

No data available

#### **Neurological effects**

No data available

#### **Further information**

No data available

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

# Components:

# Dimethyl siloxane, trimethylsiloxy-terminated:

Toxicity to fish : LC50 (Pleuronectes platessa (European plaice)): 350 mg/l

Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 172 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203 Remarks: On basis of test data.

LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203 Remarks: On basis of test data.

LC50 (Oncorhynchus mykiss (rainbow trout)): > 962 mg/l

Exposure time: 96 h Method: OPPTS 850.1075 Remarks: On basis of test data.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 200 mg/l

Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202 Remarks: On basis of test data.

EC50 (Daphnia magna (Water flea)): > 320 mg/l

Exposure time: 48 h



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Method: OECD Test Guideline 202 Remarks: On basis of test data.

EC50 (Daphnia magna (Water flea)): > 981 mg/l

Exposure time: 48 h Method: OPPTS 850.1010 Remarks: On basis of test data.

EC50 (Acartia tonsa): 629 mg/l

Exposure time: 48 h

Method: ISO 14669 and PARCOM method

Remarks: On basis of test data.

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >

2,000 mg/l

Exposure time: 336 h

EC50 (Anabaena flos-aquae): > 2,000 mg/l

Exposure time: 336 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Cyprinodon variegatus (sheepshead minnow)): 91

mg/l

Remarks: On basis of test data.

# Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

# Other adverse effects

No data available

#### 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Waste from residues : Dispose of contents and container according to wastes control

act.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

#### **Disposal precautions**

Dispose of contents and container according to wastes control act.

#### 14. TRANSPORT INFORMATION

#### International Regulations



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#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

**UN** number Not applicable Not applicable Proper shipping name Class Not applicable Subsidiary risk Not applicable Packing group Not applicable Labels Not applicable **EmS Code** Not applicable Not applicable Marine pollutant

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

Refer to section 15 for specific national regulation.

#### Special precautions for user

Not applicable

#### 15. REGULATORY INFORMATION

### National regulatory information

#### Regulation under the Occupational Safety and Health Act

#### **Harmful Substances Prohibited from Manufacturing**

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

Harmful Agents to be kept below Occupational Exposure Limits

Chemical name	CAS-No.
Silica (Amorphous silicagel)	7631-86-9

#### Harmful Agents Required to be kept below Permission Levels

Not applicable

### Hazardous substances requiring management

Not applicable

#### **Controlled Substances Subject to Environment Monitoring**

Chemical name	CAS-No.	Threshold limits (%)
Silica	7631-86-9	

# **Controlled Substances Subject to Health Examination**

Chemical name	CAS-No.	Threshold limits (%)
Mineral dust	7631-86-9	



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# Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

# **Priority Existing Chemicals**

Not applicable

## **Toxic Chemicals**

Not applicable

#### **Restricted Chemicals**

Not applicable

#### **Prohibited Chemicals**

Not applicable

#### **Toxic Release Inventory**

Chemical name	CAS-No.	Group	Threshold limits (%)
Silicone Metalloid Complex	Proprietary Ingredient	Group II	>= 1 %

#### **Accident Precaution Chemicals**

Not applicable

#### **Dangerous Substances Safety Management Act**

Not Applicable to Dangerous Materials

#### **Wastes Control Act**

Industrial waste

Follow article 13 of the act to dispose the product waste

#### Other requirements in domestic and other countries

# The components 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 ingredi-

ents are currently pre/registered 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 representa-

tive/local office.

TSCA : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

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.



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AICS : All ingredients listed or exempt.

DSL : This product contains one or more substances which are not

on the Canadian Domestic Substances List (DSL). Import of this product into Canada has volume limitations. For volume limits please consult Dow Corning Regulatory Compliance.

TCSI : All ingredients listed or exempt.

#### 16. OTHER INFORMATION

Other information : none

#### **Further information**

Sources of key data used to compile the Safety Data

Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

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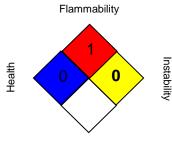
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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : yyyy/mm/dd

#### NFPA:



Special hazard.

#### Full text of other abbreviations

KR OEL : Harmful Agents to be kept below Occupational Exposure Lim-

its

# DOW CORNING

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KR OEL / TWA : Time Weighted Average

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

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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