

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) LDC 7091 SILICONE GREY
Product code : 000000000004002543

Manufacturer or supplier's details

Company : Dow Corning Singapore Pte Ltd – Vietnam Representative Office

Address : **Unit 507, 5th Floor, Saigon Trade Center
37 Ton Duc Thang street
Ben Nghe ward, district 1
Ho Chi Minh City**

Telephone : + (84 8) 3910 3388

Emergency telephone number : + (65) 6542 9595 (24 hours)

Telefax : + (84 8) 3910 3377

Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, binding agents

2. HAZARDS IDENTIFICATION**GHS Classification**

Skin corrosion/irritation : Category 3

Serious eye damage/eye irritation : Category 2A

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H316 Causes mild skin irritation.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
 Chemical nature : Silicone elastomer

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Calcium carbonate	471-34-1	>= 40 -< 60
Diisopropoxy di(ethoxyacetoacetyl) titanate	27858-32-8	>= 1 -< 1.5
Fatty acids, C8-18 and C18-unsatd.	67701-05-7	>= 1 -< 1.5
Methyltrimethoxysilane	1185-55-3	>= 0.1 -< 0.5
Octamethylcyclotetrasiloxane	556-67-2	>= 0.1 -< 0.5

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.
 Remove 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.

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

Most important symptoms and effects, both acute and delayed : Causes mild skin irritation.
Causes serious eye irritation.

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.

5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing media : None known.

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

Hazardous combustion products : Carbon oxides
Metal 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 firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
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 contain-

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

ment 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 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.

7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not get on skin or clothing.
Do not swallow.
Do not get in eyes.
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.
- 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 exposure)	Control parameters / Permissible concentration	Basis
Calcium carbonate	471-34-1	TWA	10 mg/m ³ (Calcium carbonate)	VN OEL
Methyltrimethoxysilane	1185-55-3	TWA	7.5 ppm	DCC OEL
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	US WEEL

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

Calcium carbonate

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
 Date of first issue: 2015/02/24

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

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 : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapour type

Hand protection
 Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and 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.
 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

Colour : grey

Odour : slight

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 : Not applicable

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

Relative vapour density : No data available

Relative density : 1.39

Solubility(ies)
Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : Not applicable

Explosive properties : Not explosive

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

Molecular weight : No data available

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

Particle size : No data available

10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Use at elevated temperatures may form highly hazardous compounds.
Can react with strong oxidizing agents.
Methyl alcohol is formed upon contact with water or humid air.
Hazardous decomposition products will be formed upon contact with water or humid air.
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Exposure to moisture

Incompatible materials : Oxidizing agents
Water

Hazardous decomposition products

Contact with water or humid air : Propan-2-ol

Thermal decomposition : Formaldehyde

11. TOXICOLOGICAL INFORMATION

Exposure routes : Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Components:**Calcium carbonate:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 420
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Diisopropoxy di(ethoxyacetoacetyl) titanate:

Acute oral toxicity : LD50 (Rat): 23,020 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 173 mg/l
Exposure time: 6 h
Test atmosphere: vapour
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): 12,870 mg/kg
Remarks: Based on data from similar materials

Fatty acids, C8-18 and C18-unsatd.:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
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

Methyltrimethoxysilane:

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

Acute inhalation toxicity : LC50 (Rat): > 42.1 mg/l
Exposure time: 6 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: On basis of test data.

Acute dermal toxicity : LD50 (Rabbit): > 9,500 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: On basis of test data.

Octamethylcyclotetrasiloxane:

Acute oral toxicity : LD50 (Rat): > 4,800 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: On basis of test data.

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

Acute inhalation toxicity : LC50 (Rat): 2975 ppm
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: On basis of test data.

Acute dermal toxicity : LD50 (Rabbit): > 2.5 ml/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: On basis of test data.

Skin corrosion/irritation

Causes mild skin irritation.

Components:**Calcium carbonate:**

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

Diisopropoxy di(ethoxyacetoacetyl) titanate:

Species: Rabbit
Result: No skin irritation

Fatty acids, C8-18 and C18-unsatd.:

Result: Skin irritation

Methyltrimethoxysilane:

Species: Rabbit
Result: No skin irritation
Remarks: On basis of test data.

Octamethylcyclotetrasiloxane:

Species: Rabbit
Result: No skin irritation
Remarks: On basis of test data.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:**Calcium carbonate:**

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

Diisopropoxy di(ethoxyacetoacetyl) titanate:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Fatty acids, C8-18 and C18-unsatd.:

Result: Irreversible effects on the eye

Methyltrimethoxysilane:

Species: Rabbit

Result: No eye irritation

Remarks: On basis of test data.

Octamethylcyclotetrasiloxane:

Species: Rabbit

Result: No eye irritation

Remarks: On basis of test data.

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**Calcium carbonate:**

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

Diisopropoxy di(ethoxyacetoacetyl) titanate:

Exposure routes: Skin contact

Species: Guinea pig

Result: negative

Fatty acids, C8-18 and C18-unsatd.:

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Result: negative

Remarks: Based on data from similar materials

Methyltrimethoxysilane:

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

Test Type: Buehler Test
Species: Guinea pig
Result: positive
Remarks: On basis of test data.

Octamethylcyclotetrasiloxane:

Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test
Species: Guinea pig
Result: negative
Remarks: On basis of test data.

Germ cell mutagenicity

Not classified based on available information.

Components:**Calcium carbonate:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Diisopropoxy di(ethoxyacetoacetyl) titanate:

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

Fatty acids, C8-18 and C18-unsatd.:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

Methyltrimethoxysilane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: On basis of test data.

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Result: positive
Remarks: On basis of test data.

: Test Type: Chromosome aberration test in vitro
Result: positive
Remarks: On basis of test data.

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Result: negative
Remarks: On basis of test data.

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Octamethylcyclotetrasiloxane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: On basis of test data.

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Result: negative
Remarks: On basis of test data.

: Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: On basis of test data.

: Test Type: In vitro sister chromatid exchange assay in mammalian cells
Result: negative
Remarks: On basis of test data.

: Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Result: negative
Remarks: On basis of test data.

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Rat
Application Route: inhalation (vapour)
Result: negative
Remarks: On basis of test data.

Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: On basis of test data.

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:**Calcium carbonate:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

reproduction/developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 422
 Result: negative

Effects on foetal development : Test Type: Reproduction/Developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 422
 Result: negative

Diisopropoxy di(ethoxyacetoacetyl) titanate:

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

Fatty acids, C8-18 and C18-unsatd.:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 422
 Result: negative
 Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 422
 Result: negative
 Remarks: Based on data from similar materials

Methyltrimethoxysilane:

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

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

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

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

Octamethylcyclotetrasiloxane:

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

Effects on foetal development : Test Type: Prenatal development toxicity study (teratogenicity)
Species: Rabbit
Application Route: inhalation (vapour)
Symptoms: No effects on foetal development
Remarks: On basis of test data.

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

STOT - single exposure

Not classified based on available information.

Components:**Diisopropoxy di(ethoxyacetoacetyl) titanate:**

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Components:**Methyltrimethoxysilane:**

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Ingestion

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

Octamethylcyclotetrasiloxane:

Exposure routes: Ingestion

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

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Skin contact

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

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

bw or less.

Repeated dose toxicity**Components:****Calcium carbonate:**

Species: Rat
NOAEL: 1,000 mg/kg
Application Route: Ingestion
Exposure time: 6 Weeks
Method: OECD Test Guideline 422

Diisopropoxy di(ethoxyacetoacetyl) titanate:

Species: Rat
NOAEL: 86.7 mg/l
Application Route: inhalation (vapour)
Exposure time: 13 Weeks
Remarks: Based on data from similar materials

Fatty acids, C8-18 and C18-unsatd.:

Species: Rat, male
NOAEL: > 5,000 mg/kg
Application Route: Ingestion
Exposure time: 18 Weeks
Remarks: Based on data from similar materials

Methyltrimethoxysilane:

Species: Rat
Application Route: inhalation (vapour)
Remarks: On basis of test data.

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

Octamethylcyclotetrasiloxane:

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

Species: Rat
Application Route: inhalation (vapour)
Remarks: On basis of test data.

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

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

Aspiration toxicity

Not classified based on available information.

Further information**Components:****Octamethylcyclotetrasiloxane:**

Remarks: Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Calcium carbonate:**

- | | | |
|-----------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202 |
| Toxicity to algae | : | ErC50 (Desmodesmus subspicatus (green algae)): > 14 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201 |

Diisopropoxy di(ethoxyacetoacetyl) titanate:

- | | | |
|-------------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 11,130 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials |
| Toxicity to algae | : | EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials |

Fatty acids, C8-18 and C18-unsatd.:

- | | | |
|-------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish | : | LC50 (Oryzias latipes (Japanese medaka)): > 3.2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility
Based on data from similar materials |
| Toxicity to daphnia and other | : | EC50 (Daphnia magna (Water flea)): > 4.8 mg/l |

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

- Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.022 mg/l
Exposure time: 72 h
Remarks: No toxicity at the limit of solubility
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0044 mg/l
Remarks: On basis of test data.
No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): >= 0.0079 mg/l
Exposure time: 21 d
Remarks: On basis of test data.
No toxicity at the limit of solubility

Ecotoxicology Assessment

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

Persistence and degradability**Components:****Diisopropoxy di(ethoxyacetoacetyl) titanate:**

- Biodegradability : Result: Readily biodegradable.
Biodegradation: 66 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
Remarks: Based on data from similar materials

Fatty acids, C8-18 and C18-unsatd.:

- Biodegradability : Result: Readily biodegradable.
Biodegradation: 71 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Based on data from similar materials

Octamethylcyclotetrasiloxane:

- Biodegradability : Result: Not readily biodegradable.
Biodegradation: 3.7 %
Exposure time: 28 d
Method: OECD Test Guideline 310

- Stability in water : Degradation half life: 69.3 - 144 h (24.6 °C) pH: 7
Method: OECD Test Guideline 111

Bioaccumulative potential**Components:****Diisopropoxy di(ethoxyacetoacetyl) titanate:**

- Partition coefficient: n-octanol/water : log Pow: 0.05

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

Fatty acids, C8-18 and C18-unsatd.:

Bioaccumulation : Species: Zebrafish
 Bioconcentration factor (BCF): 255
 Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 3.3

Methyltrimethoxysilane:

Partition coefficient: n-octanol/water : log Pow: -2.36

Octamethylcyclotetrasiloxane:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
 Bioconcentration factor (BCF): 12,400

Partition coefficient: n-octanol/water : log Pow: 6.48 (25.1 °C)

Mobility in soil

No data available

Other adverse effects**Components:****Octamethylcyclotetrasiloxane:**

Results of PBT and vPvB assessment : Remarks: Octamethylcyclotetrasiloxane (D4) meets the current REACH Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

13. DISPOSAL CONSIDERATIONS**Disposal methods**

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.

DOW CORNING(R) LDC 7091 SILICONE GREY

Version 1.6 Revision Date: 2017/03/13 SDS Number: 1387401-00007 Date of last issue: 2016/11/21
Date of first issue: 2015/02/24

14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Law on Chemicals No. 06/2007/QH12

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

- KECI : All ingredients listed, exempt or notified.
- TCSI : All ingredients listed or exempt.
- REACH : For purchases from Dow Corning EU legal entities, all ingredients 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 representative/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.
- AICS : All ingredients listed or exempt.
- IECSC : All ingredients listed or exempt.
- PICCS : All ingredients listed or exempt.
- DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

16. OTHER INFORMATION**Further information**

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

compile the Safety Data Sheet

eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
DCC OEL	: Dow Corning Guide
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
VN OEL	: Vietnam. Occupational Exposure Limits
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
DCC OEL / TWA	: Time weighted average
US WEEL / TWA	: Time weighted average
VN 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

DOW CORNING(R) LDC 7091 SILICONE GREY

Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/21
1.6	2017/03/13	1387401-00007	Date of first issue: 2015/02/24

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.

VN / EN