

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

SECTION 1. IDENTIFICATION

Product name : DOW CORNING(R) OS-2 SILICONE CLEANER & SOLVENT

Product code : 000000000003162397

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 : Solvent
Cleaning/washing agents and additives

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 2

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

Precautionary Statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version 4.0 Revision Date: 05/10/2016 SDS Number: 2155630-00004 Date of last issue: 02/15/2016
Date of first issue: 05/14/2015

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

|| Static-accumulating flammable liquid.
|| Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Methyl Siloxane

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Hexamethyldisiloxane	107-46-0	>= 50 - < 70
Octamethyltrisiloxane	107-51-7	>= 30 - < 50

SECTION 4. FIRST AID MEASURES

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

|| In case of skin contact : In case of contact, immediately flush skin with plenty of water.
Remove contaminated clothing and shoes.

|| 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.

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
Silicon oxides
Formaldehyde
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
Ventilate the area.
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 : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version 4.0	Revision Date: 05/10/2016	SDS Number: 2155630-00004	Date of last issue: 02/15/2016 Date of first issue: 05/14/2015
----------------	------------------------------	------------------------------	---

container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

- | | |
|-----------------------------|--|
| Technical measures | :
Ensure all equipment is electrically grounded before beginning transfer operations.
This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations.
Restrict flow velocity in order to reduce the accumulation of static electricity. |
| Local/Total ventilation | :
Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation. |
| Advice on safe handling | :
Avoid inhalation of vapor or mist.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | :
Keep in properly labeled containers.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition. |
| Materials to avoid | :
Do not store with the following product types:
Strong oxidizing agents
Organic peroxides
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures which in contact with water emit flammable gases
Explosives |

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version 4.0	Revision Date: 05/10/2016	SDS Number: 2155630-00004	Date of last issue: 02/15/2016 Date of first issue: 05/14/2015
----------------	------------------------------	------------------------------	---

Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hexamethyldisiloxane	107-46-0	TWA	200 ppm	DCC OEL
Octamethyltrisiloxane	107-51-7	TWA	200 ppm	DCC OEL

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

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.

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

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures : Ensure that eye flushing systems and safety showers are

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**Version
4.0Revision Date:
05/10/2016SDS Number:
2155630-00004Date of last issue: 02/15/2016
Date of first issue: 05/14/2015

located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: 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	: 110 °C
Flash point	: -3 °C Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: 13.8 %(V)
Lower explosion limit	: 0.9 %(V)
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 0.78
Solubility(ies) Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

Autoignition temperature : 350 °C

Decomposition temperature : No data available

Viscosity
Viscosity, kinematic : 0.75 cSt

Explosive properties : Not explosive

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

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Highly flammable liquid and vapor.
Vapors may form explosive mixture with air.
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 : Handling operations that can promote accumulation of static charges.
Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition products

Thermal decomposition : Formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Ingredients:

Hexamethyldisiloxane:

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

Acute oral toxicity	: LD50 (Rat): >16 ml/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on test data
Acute inhalation toxicity	: LC50 (Rat): 15956 ppm Exposure time: 4 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on test data
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on test data

Octamethyltrisiloxane:

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on test data
Acute inhalation toxicity	: LC50 (Rat): > 2350 ppm Exposure time: 4 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on test data
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on test data

Skin corrosion/irritation

Not classified based on available information.

Ingredients:**Hexamethyldisiloxane:**

Species: Rabbit
Result: No skin irritation
Remarks: Based on test data

Octamethyltrisiloxane:

Species: Rabbit
Result: No skin irritation
Remarks: Based on test data

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

Serious eye damage/eye irritation

Not classified based on available information.

Ingredients:**Hexamethyldisiloxane:**

Species: Rabbit
Result: No eye irritation
Remarks: Based on test data

Octamethyltrisiloxane:

Result: No eye irritation
Remarks: Based on data from similar materials

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Ingredients:**Hexamethyldisiloxane:**

Assessment: Does not cause skin sensitization.
Test Type: Human repeat insult patch test (HRIPT)
Species: Humans
Remarks: Based on test data

Octamethyltrisiloxane:

Assessment: Does not cause skin sensitization.
Test Type: Human repeat insult patch test (HRIPT)
Species: Humans
Remarks: Based on test data

Germ cell mutagenicity

Not classified based on available information.

Ingredients:**Hexamethyldisiloxane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on test data
: Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on test data

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version 4.0	Revision Date: 05/10/2016	SDS Number: 2155630-00004	Date of last issue: 02/15/2016 Date of first issue: 05/14/2015
----------------	------------------------------	------------------------------	---

Genotoxicity in vivo	: Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: Based on test data
	: Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro) Result: negative Remarks: Based on test data
	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Intraperitoneal injection Result: negative Remarks: Based on test data

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

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on test data
	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on test data

Carcinogenicity

Not classified based on available information.

Ingredients:**Hexamethyldisiloxane:**

Species: Rat Application Route: inhalation (vapor) Result: negative Remarks: Based on test data
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Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects.
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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.

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

Reproductive toxicity

Not classified based on available information.

Ingredients:**Hexamethyldisiloxane:**

- | | |
|------------------------------------|--|
| Effects on fertility | : Test Type: Two-generation reproduction toxicity study
Species: Rat, male and female
Application Route: inhalation (vapor)
Symptoms: No effects on fertility.
Remarks: Based on test data |
| Effects on fetal development | : Test Type: Two-generation reproduction toxicity study
Species: Rat, male and female
Application Route: inhalation (vapor)
Symptoms: No effects on fetal development.
Remarks: Based on test data |
| Reproductive toxicity - Assessment | : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. |

Octamethyltrisiloxane:

- | | |
|------------------------------------|--|
| Effects on fertility | : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat, male and female
Application Route: inhalation (vapor)
Symptoms: No effects on fertility.
Remarks: Based on test data

Test Type: Uterotrophic assay
Species: Rat, female
Application Route: inhalation (vapor)
Result: negative
Remarks: Based on test data |
| Effects on fetal development | : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat, male and female
Application Route: inhalation (vapor)
Symptoms: No effects on fetal development.
Remarks: Based on test data |
| Reproductive toxicity - Assessment | : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. |

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

Ingredients:**Hexamethyldisiloxane:**

Routes of exposure: Ingestion

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

Routes of exposure: inhalation (vapor)

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

Routes of exposure: Skin contact

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

Octamethyltrisiloxane:

Routes of exposure: Ingestion

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

Routes of exposure: inhalation (vapor)

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

Repeated dose toxicity**Ingredients:****Hexamethyldisiloxane:**

Species: Rat

Application Route: Ingestion

Remarks: Based on test data

Species: Rat

Application Route: inhalation (vapor)

Remarks: Based on test data

Species: Rat

Application Route: Skin contact

Remarks: Based on test data

Octamethyltrisiloxane:

Species: Rat

Application Route: Ingestion

Remarks: Based on test data

Species: Rat

Application Route: inhalation (vapor)

Remarks: Based on test data

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version 4.0	Revision Date: 05/10/2016	SDS Number: 2155630-00004	Date of last issue: 02/15/2016 Date of first issue: 05/14/2015
----------------	------------------------------	------------------------------	---

Aspiration toxicity

Not classified based on available information.

Further information**Ingredients:****Hexamethyldisiloxane:**

Remarks: This material contains hexamethyldisiloxane (HMDS). Repeated inhalation exposure in rats to HMDS 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.

Octamethyltrisiloxane:

Remarks: This material contains octamethyltrisiloxane (L3). Repeated inhalation exposure in rats to L3 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.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Ingredients:****Hexamethyldisiloxane:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.46 mg/l Exposure time: 96 h Remarks: Based on test data
Toxicity to algae	:	EC50 (Selenastrum capricornutum (green algae)): > 0.55 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility. Based on test data
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia sp.): 0.08 mg/l Exposure time: 21 d Remarks: Based on test data

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Octamethyltrisiloxane:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.019 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on test data No toxicity at the limit of solubility.
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**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

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|--|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 0.020 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility. |
| Toxicity to algae | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.0094 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility. |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Oncorhynchus mykiss (rainbow trout)): > 0.027 mg/l
Method: OECD Test Guideline 210
Remarks: Based on test data
No toxicity at the limit of solubility. |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia sp.): > 0.15 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility. |

Ecotoxicology Assessment

- | | | |
|--------------------------|---|---|
| Acute aquatic toxicity | : | This product has no known ecotoxicological effects. |
| Chronic aquatic toxicity | : | This product has no known ecotoxicological effects. |

Persistence and degradability**Ingredients:****Hexamethyldisiloxane:**

- | | | |
|--------------------|---|---|
| Biodegradability | : | Result: Not readily biodegradable.
Biodegradation: 20 %
Exposure time: 28 d
Method: OECD Test Guideline 301C |
| Stability in water | : | Degradation half life: 116 h pH: 7
Method: OECD Test Guideline 111
Remarks: Based on test data |

Octamethyltrisiloxane:

- | | | |
|--------------------|---|--|
| Biodegradability | : | Result: Not readily biodegradable.
Biodegradation: 0 %
Method: OECD Test Guideline 310 |
| Stability in water | : | Degradation half life: 329 h pH: 7
Method: OECD Test Guideline 111
Remarks: Based on test data |

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version 4.0	Revision Date: 05/10/2016	SDS Number: 2155630-00004	Date of last issue: 02/15/2016 Date of first issue: 05/14/2015
----------------	------------------------------	------------------------------	---

Bioaccumulative potential**Ingredients:****Hexamethyldisiloxane:**

Bioaccumulation	: Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 2,410 Concentration: 0.04 mg/l Remarks: Based on test data
Partition coefficient: n-octanol/water	: log Pow: 5.06 (20 °C) Remarks: Based on test data

Octamethyltrisiloxane:

Bioaccumulation	: Species: Pimephales promelas (fathead minnow) Bioconcentration factor (BCF): >= 500 Method: OECD Test Guideline 305 Remarks: Biomagnification factor <1
Partition coefficient: n-octanol/water	: log Pow: >= 4 Remarks: Based on test data

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Resource Conservation and Recovery Act (RCRA)	: When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.
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Waste Code	: D001: Ignitability
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Waste from residues	: Dispose of in accordance with local regulations.
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Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.
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SECTION 14. TRANSPORT INFORMATION**International Regulations**

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

UNRTDG

UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane, Octamethyltrisiloxane)
Class	: 3
Packing group	: II
Labels	: 3

IATA-DGR

UN/ID No.	: UN 1993
Proper shipping name	: Flammable liquid, n.o.s. (Hexamethyldisiloxane, Octamethyltrisiloxane)
Class	: 3
Packing group	: II
Labels	: Flammable Liquids
Packing instruction (cargo aircraft)	: 364
Packing instruction (passenger aircraft)	: 353

IMDG-Code

UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane, Octamethyltrisiloxane)
Class	: 3
Packing group	: II
Labels	: 3
EmS Code	: F-E, <u>S-E</u>
Marine pollutant	: yes

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**

UN/ID/NA number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUIDS, N.O.S. (Hexamethyldisiloxane, Octamethyltrisiloxane)
Class	: 3
Packing group	: II
Labels	: FLAMMABLE LIQUID
ERG Code	: 128
Marine pollutant	: yes (Hexamethyldisiloxane)

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Fire Hazard

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

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

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**

Hexamethyldisiloxane	107-46-0
Octamethyltrisiloxane	107-51-7

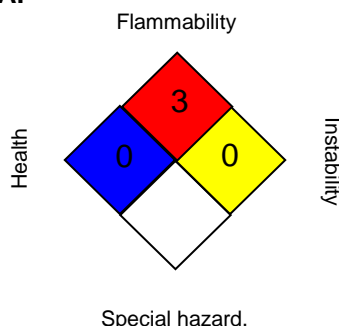
California Prop. 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

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.
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).
TCSI	All ingredients listed or exempt.

**DOW CORNING(R) OS-2 SILICONE CLEANER
& SOLVENT**

Version	Revision Date:	SDS Number:	Date of last issue: 02/15/2016
4.0	05/10/2016	2155630-00004	Date of first issue: 05/14/2015

SECTION 16. OTHER INFORMATION**Further information****NFPA:****HMIS III:**

HEALTH	0
FLAMMABILITY	3
PHYSICAL HAZARD	0

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

Full text of other abbreviations

DCC OEL : Dow Corning Guide
DCC OEL / TWA : Time weighted average

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

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Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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

Revision Date : 05/10/2016

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.

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