DOW CORNING

# DOW CORNING(R) OS-30

| Version | Revision Date: | MSDS Number: | Date of last issue: - |
|---|---|---|---|
| 1. 0 | 08/18/2014 | 508300-00001 | Date of first issue: 08/18/2014 |

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) OS-30

Product code : 000000000002348641

Chemical nature : Methyl Siloxane

**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

Disposal considerations : (989) 496-6315

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

Recommended use : Cleaning/washing agents and additives
Solvent

## SECTION 2. HAZARDS IDENTIFICATION

**Emergency Overview**

| **CAUTION** | |
|---|---|
| Appearance | liquid |
| Color | colorless |
| Odor | slight |
| Hazard Summary | Combustible liquid and vapor. |

**OSHA Regulatory status** : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Potential Health Effects**

Inhalation : No significant effects expected from a single short-term exposure.

Skin : No significant irritation expected from a single short-term exposure.

| | | |
|---|---|---|
| Eyes | : | No significant irritation expected from a single exposure. |
| Ingestion | : | No significant effects expected from a single short-term exposure. |
| Aggravated Medical Condition | : | None known. |

**Carcinogenicity:**

| | |
|---|---|
| **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. |
| **ACGIH** | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
| **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. |

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|---|---|---|
| Substance / Mixture | : | Substance |
| Chemical nature | : | Methyl Siloxane |

**Hazardous ingredients**

| Chemical Name | CAS-No. | Concentration (%) |
|---|---|---|
| Decamethyltetrasiloxane | 141-62-8 | >= 90 - <= 100 |
| Octamethyltrisiloxane | 107-51-7 | >= 0.1 - < 1 |
| Hexamethyldisiloxane | 107-46-0 | >= 0.1 - < 1 |

## SECTION 4. FIRST AID MEASURES

| | | |
|---|---|---|
| If inhaled | : | If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur. |
| In case of skin contact | : | Wash with water and soap as a precaution.<br>Get medical attention if symptoms occur. |
| In case of eye contact | : | Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists. |

| | | |
|---|---|---|
| If swallowed | : | If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water. |
| Protection of first-aiders | : | No special precautions are necessary for first aid responders. |
| Notes to physician | : | Treat symptomatically and supportively. |

## SECTION 5. FIRE-FIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Water spray<br>Alcohol-resistant foam<br>Dry chemical<br>Carbon dioxide (CO2) |
| 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.<br>Flash back possible over considerable distance.<br>Vapors may form explosive mixtures with air.<br>Fire burns more vigorously than would be expected.<br>Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products | : | Carbon oxides<br>Silicon oxides<br>Formaldehyde |
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Cool containers/tanks with water spray.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary.<br>Use personal protective equipment. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Remove all sources of ignition.<br>Follow safe handling advice and personal protective equipment recommendations. |
| Environmental precautions | : | Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>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 (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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 container.
Clean up remaining materials from spill with suitable absorbent.
Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

## SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling : 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
Gases

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**

| Ingredients | CAS-No. | Value type (Form of exposure) | Control parame-ters / Permissible concentration | Basis |
|---|---|---|---|---|
| Decamethyltetrasiloxane | 141-62-8 | 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
Material : Flame retardant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Wash hands before breaks and at the end of workday.

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

Skin and body protection : Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.

| | | |
|---|---|---|
| Hygiene measures | : | Ensure that eye flushing systems and safety showers are located close to the working place.<br>When using do not eat, drink or smoke.<br>Wash contaminated clothing before re-use.<br>These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.<br>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 | : | -67.99 °C |
| Initial boiling point and boiling range | : | 194 °C |
| Flash point | : | 60 °C<br>Method: Tag closed cup |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Vapor pressure | : | 0.5731427 hPa |
| Relative vapor density | : | 1.01 |
| Relative density | : | 0.850 |
| Solubility(ies) | | |
| Water solubility | : | No data available |

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | No data available |
| Autoignition temperature | : | 350 °C |
| Thermal decomposition | : | No data available |
| Viscosity | | |
| Viscosity, kinematic | : | 1.5 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 | : | Flammable liquid and vapor.<br>Vapors may form explosive mixture with air.<br>Use at elevated temperatures may form highly hazardous compounds.<br>Can react with strong oxidizing agents.<br>Hazardous decomposition products will be formed at elevated temperatures. |
| Conditions to avoid | : | 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<br>Skin contact<br>Ingestion |

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on test data

**Ingredients:**

**Decamethyltetrasiloxane:**

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

**Hexamethyldisiloxane:**

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

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

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

**Ingredients:**

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

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

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

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

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

**Ingredients:**

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

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

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

**Respiratory or skin sensitization**

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

**Product:**

Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT)
Species: Humans
Remarks: No known sensitising effect.
Based on test data

**Ingredients:**

**Decamethyltetrasiloxane:**
Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT)
Remarks: No known sensitising effect.
Based on test data

**Octamethyltrisiloxane:**
Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT)
Species: Humans
Remarks: No known sensitising effect.
Based on test data

**Hexamethyldisiloxane:**
Assessment: Does not cause skin sensitization.

Test Type: Human repeat insult patch test (HRIPT)
Species: Humans
Remarks: No known sensitising effect.
Based on test data

**Germ cell mutagenicity**

Not classified based on available information.

**Product:**

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

**Ingredients:**

**Decamethyltetrasiloxane:**

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

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Result: negative
Remarks: Based on test data

**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

**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

: 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

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Test 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.

**Carcinogenicity**

Not classified based on available information.

**Ingredients:**

**Hexamethyldisiloxane:**
Species: Rat
Application Route: inhalation (vapor)
Result: negative

Remarks: Based on test data

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**Reproductive toxicity**

Not classified based on available information.

**Product:**

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.

**Ingredients:**

**Decamethyltetrasiloxane:**

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.

**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.

**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.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Product:**

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

**Ingredients:**

**Decamethyltetrasiloxane:**
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.

**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.

**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.

**Repeated dose toxicity**

**Product:**

Species: Rat
Application Route: Ingestion
Remarks: Based on test data

Species: Rat
Application Route: Ingestion
Remarks: Based on test data

**Ingredients:**

**Decamethyltetrasiloxane:**

Species: Rat
Application Route: Ingestion
Remarks: Based on test data

Species: Rat
Application Route: inhalation (vapor)
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

**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

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Ingredients:**

**Decamethyltetrasiloxane:**
Remarks: This material contains decamethyltetrasiloxane (L4). Repeated oral exposure in rats to L4 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.

**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.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ingredients:**

**Decamethyltetrasiloxane:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 6.3 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: No toxicity at the limit of solubility. |
| Toxicity to bacteria | : | EC50: > 100 mg/l<br>Method: OECD Test Guideline 209 |
| Ecotoxicology Assessment<br>Chronic aquatic toxicity | : | This product has no known ecotoxicological effects. |

**Octamethyltrisiloxane:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.019 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Based on test data<br>No toxicity at the limit of solubility. |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 0.020 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>Remarks: No toxicity at the limit of solubility. |
| Toxicity to algae | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.0094 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: No toxicity at the limit of solubility. |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Oncorhynchus mykiss (rainbow trout)): > 0.027 mg/l<br>Method: OECD Test Guideline 210<br>Remarks: Based on test data<br>No toxicity at the limit of solubility. |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia sp.): > 0.15 mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 211<br>Remarks: No toxicity at the limit of solubility. |
| Ecotoxicology Assessment<br>Acute aquatic toxicity | : | This product has no known ecotoxicological effects. |

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

**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.

**Persistence and degradability**

**Ingredients:**

**Decamethyltetrasiloxane:**

Stability in water : Degradation half life: 728 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

**Hexamethyldisiloxane:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 116 h pH: 7
Method: OECD Test Guideline 111
Remarks: Based on test data

**Bioaccumulative potential**

**Ingredients:**

**Decamethyltetrasiloxane:**

| | | |
|---|---|---|
| Bioaccumulation | : | Species: Fish<br>Bioconcentration factor (BCF): >= 500<br>Method: OECD Test Guideline 305<br>Remarks: Does not biomagnify along the food chain. |
| Partition coefficient: n-octanol/water | : | log Pow: > 8<br>Remarks: Based on test data |

**Octamethyltrisiloxane:**

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

**Hexamethyldisiloxane:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: >= 4<br>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. |
| Waste Code | : | D001: Ignitability |
| Waste from residues | : | Dispose of in accordance with local regulations. |
| Contaminated packaging | : | Dispose of as unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>Do not burn, or use a cutting torch on, the empty drum. |

## SECTION 14. TRANSPORT INFORMATION

**International Regulation**

**UNRTDG**

| | | |
|---|---|---|
| UN number | : | UN 1993 |
| Proper shipping name | : | FLAMMABLE LIQUID, N.O.S. |

(Decamethyltetrasiloxane)

| | | |
|---|---|---|
| Class | : | 3 |
| Packing group | : | III |
| Labels | : | 3 |

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | UN 1993 |
| Proper shipping name | : | Flammable liquid, n.o.s. (Decamethyltetrasiloxane) |
| Class | : | 3 |
| Packing group | : | III |
| Labels | : | Flammable Liquids |
| Packing instruction (cargo aircraft) | : | 366 |
| Packing instruction (passenger aircraft) | : | 355 |

**IMDG-Code**

| | | |
|---|---|---|
| UN number | : | UN 1993 |
| Proper shipping name | : | FLAMMABLE LIQUID, N.O.S. (Decamethyltetrasiloxane) |
| Class | : | 3 |
| Packing group | : | III |
| Labels | : | 3 |
| EmS Code | : | F-E, S-E |
| Marine pollutant | : | no |

**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 | : | NA 1993 |
| Proper shipping name | : | COMBUSTIBLE LIQUID, N.O.S. (Decamethyltetrasiloxane) |
| Class | : | CBL |
| Packing group | : | III |
| Labels | : | None |
| ERG Code | : | 128 |
| Marine pollutant | : | no |
| Remarks | : | Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters). If transporting by vessel or aircraft, unless other means of transportation is impracticable, then the product must be shipped as a flammable liquid. |

## SECTION 15. REGULATORY INFORMATION

| | | |
|---|---|---|
| **OSHA Hazards** | : | Combustible Liquid |

**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

**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**

| | | |
|---|---|---|
| Decamethyltetrasiloxane | 141-62-8 | 90 - 100 % |

**New Jersey Right To Know**

| | | |
|---|---|---|
| Decamethyltetrasiloxane | 141-62-8 | 90 - 100 % |

**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:**

KECI : All ingredients listed, exempt or notified.

REACH : All ingredients (pre-)registered or exempt.

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.

ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from inventory listing.

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).

NZIoC : All ingredients listed or exempt.

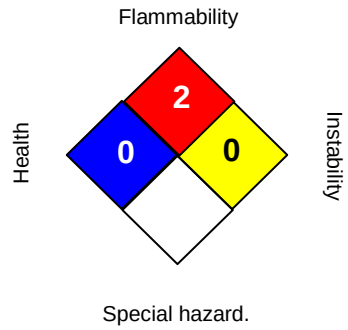
**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

## SECTION 16. OTHER INFORMATION

**Further information**

**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 0 |
| FLAMMABILITY | 2 |
| 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

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/

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8