

**Section 1 - Chemical Product and Company Identification**

**Company Information:**

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**Product Information:**

**Substance/Mixture:** Mixture  
**Substance name:** Dodecamethylpentasiloxane, C.A.S. Number: 141-63-9  
**Chemical nature:** Silicone  
**Recommended use:** Solvent, Cosmetics, Intermediate

**Section 2 - Classifications**

**GHS Classification:** Flammable liquids: Category 4

**Signal Word:** WARNING

**Hazard Statements:**

H227: **Combustible liquid.**

**Precautionary Statements:**

**Prevention:**

P210: **Keep away from heat/sparks/open flames/hot surfaces. No smoking.**  
P280: **Wear protective gloves/ eye protection/ face protection.**

**Response:**

P370: **In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.**

**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:** No data available.

**Section 3 – Composition and Information on Ingredients**

**Hazardous Ingredients:**

<u>Common Name</u>	<u>C.A.S. No.</u>	<u>Wt. %</u>
Dodecamethylpentasiloxane	141-63-9	>=90.0-<=100.0 %

#### **Section 4 – First Aid Measures**

##### **First Aid Measures:**

**General Advice:** If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
**Skin contact:** Wash off with plenty of water.  
**Inhalation:** No emergency medical treatment necessary.  
**Ingestion:** No emergency medical treatment necessary.  
**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

##### **Most important symptoms and effects, both acute and delayed:**

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

##### **Indication of any immediate medical attention and special treatment needed:**

**Note to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and clinical condition of the patient.

#### **Section 5 – Firefighting Measures**

**Suitable extinguishing media:** Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media:** High volume water jet. Do not use direct water stream.

##### **Specific hazards arising from the substance or mixture**

**Hazardous combustion products:** Carbon oxides, Silicon oxides.

**Unusual Fire and Explosion Hazards:** Flash back possible over considerable distance. Exposure to combustion products may be a hazard to health. Fire burns more vigorously than would be expected. Vapors may form explosive mixtures with air.

##### **Advice for firefighters**

**Firefighting Procedures:** Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Do not use a solid water stream as it may scatter and spread fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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. 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. Prevent spreading over a wide area (e.g. by containment or oil barriers).

**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 container. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. 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**

**Precautions for safe handling:**

Handle in accordance with good industrial hygiene and safety practice. 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. Use with local exhaust ventilation.

See Engineering measures under SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

**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. Do not store with the following product types: Strong oxidizing agents, Explosives, Gases. Unsuitable materials for containers: None known

**Section 8 – Exposure Controls and Personal Protection**

**Control parameters:**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

**Exposure controls:**

**Engineering Controls:**

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, general ventilation should be sufficient for most operations. Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations.

**Individual protective measures:**

**Eye/face protection:** Use safety glasses (with side shields).

**Skin protection:**

**Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"), Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Natural rubber ("latex"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Wear clean, body-covering clothing.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

**The following should be effective types of air-purifying respirators:** Organic vapor cartridge.

**Section 9 – Physical/Chemical Characteristics**

**Appearance:**

**Physical state:** Liquid

**Color:** Colorless

**Odor:** None

**Odor Threshold:** No data available.

**Freezing Point:** No data available.

**Melting Point Range:** No data available.

**Boiling Point (760mmHg):** 230 degrees Celsius (446 degrees F)

**Vapor Pressure:** No data available.

**Relative Vapor Density (air=1):** No data available.

**Solubility in Water:** No data available.

**pH:** No data available.

**Flash Point:** 87 degrees Celsius (189 degrees F); **Method:** Tag closed cup

**Auto-ignition Temperature:** No data available.

**Flammability (solid, gas):** Not applicable.

**Evaporation rate (Butyl Acetate=1):** No data available.

**Upper explosion limit:** No data available.

**Lower explosion limit:** No data available.

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

**Decomposition temperature:** No data available.

**Viscosity, kinematic:** 2cSt at 25 degrees Celsius (77 degrees F)

**Explosive properties:** Not explosive.

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

**Relative Density (Water=1):** 0.872

**Molecular weight:** No data available.

**Particle Size:** Not applicable.

**NOTE:** The physical data presented above are typical values and should not be construed as a specification.

### **Section 10 – Stability and Reactivity**

**Reactivity:** Not classified as a reactivity hazard.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:**

Combustible liquid. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required.

**Conditions to avoid:** Heat, flames and sparks.

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Thermal decomposition: Formaldehyde

### **Section 11 – Toxicological Information**

*Toxicological information appears in this section when such data is available.*

**Acute toxicity:**

**Acute Oral toxicity:**

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

**Based on information for component(s):** LD50 (Rat, male/female): < 5000 mg/kg. No deaths occurred at this concentration.

**Acute Dermal toxicity:**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

**Based on information for component(s):** LD50 (Rat): < 2,000 mg/kg. No deaths occurred at this concentration.

**Acute Inhalation toxicity:**

No adverse effects are anticipated from inhalation.  
As product: The LC50 has not been determined.

**Skin corrosion/irritation:**

Brief contact is essentially non-irritating to skin.

**Serious eye damage/eye irritation:**

May cause slight temporary eye irritation. Corneal injury is unlikely. May cause mild eye comfort.

**Sensitization:**

Contains component(s) which did not cause allergic skin sensitization in guinea pigs.

**For respiratory sensitization:** No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure):** Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure):** Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Carcinogenicity:** No relevant data found.

**Teratogenicity:** For this family of material(s): Did not cause birth defects in laboratory animals.

**Mutagenicity:** For this family of material(s): In vitro genetic toxicity studies were predominately negative.

**Reproductive toxicity:** For similar material(s): In animal studies, did not interfere with fertility. In animal studies, did not interfere with reproduction.

**Aspiration Hazard:** Based on available information, aspiration hazard could not be determined.

**Components Influencing Toxicology:**

**Dodecamethylpentasiloxane:**

**Acute inhalation toxicity:** The LC50 has not been determined.

**Section 12 – Ecological Information**

*Ecotoxicological information appears in this section when such data is available.*

**Toxicity:**

**Dodecamethylpentasiloxane:**

**Acute toxicity to fish:** Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility.

LC50, *Oncorhynchus mykiss* (rainbow trout), 96 Hour, > 0.000075 mg/l,

OECD Test Guideline 203.

**Acute toxicity to algae/aquatic plants:** No toxicity at the limit of solubility.

EC50, *Pseudokirchnerella subcapita* (green algae), 72 Hour, < 0.035 microgram/l.

**Chronic toxicity to aquatic invertebrates:** No toxicity at the limit of solubility.

NOEC, *Daphnia magna* (Water flea), 21 d, 0.000047 mg/l.

**Persistence and degradability:**

**Dodecamethylpentasiloxane:**

**Biodegradability:** No appreciable biodegradation is expected.

**10-day window:** Not applicable.  
**Biodegradation:** 0%  
**Exposure time:** 28 d  
**Method:** OECD Test guidelines 310

**Bioaccumulative potential:**

**Dodecamethylpentasiloxane:**

**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).  
**Partition Coefficient: n-octanol/water (log Pow):** 9.26  
**Bioconcentration factor (BCF):** 170

**Mobility in soil:**

**Dodecamethylpentasiloxane:**

Expected to be relatively immobile in soil (Koc): >5000  
**Partition Coefficient (Koc):** >5000

**Section 13 – Disposal Considerations**

**Disposal methods:**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information.

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. For additional information, refer to: Handling & Storage Information, MSDS Section 7 Stability & Reactivity Information, MSDS Section 10 Regulatory Information, MSDS Section 15.

**Treatment and disposal methods of used packaging:**

Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Do not re-use containers for any purpose.

**Section 14 – Transport Information**

**Domestic regulation:**

**DOT:**

**UN/ID/NA number:** NA 1993  
**Proper shipping name:** COMBUSTIBLE LIQUID, N.O.S. (Dodecamethylpentasiloxane)  
**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).

**International Regulation:**

**UNRTDG:** Not regulated as a dangerous good

**Classification for AIR transport: IATA-DGR:** Not regulated for transport.

**Classification for SEA transport: IMDG-Code:** Not regulated for transport.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Consult IMO regulations before transporting ocean bulk

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**Section 15 – Hazard Classification**

**EPCRA (Emergency Planning and Community Right-to-Know):**

**CERCLA Reportable Quantity Section 103:**

<u>Component Name</u>	<u>CAS Number</u>	<u>Component RQ (lbs)</u>	<u>Calculated product RQ(lbs)</u>
NONE			

**SARA 304 Extremely Hazardous Substances Reportable Quantity:**

<u>Component Name</u>	<u>CAS Number</u>	<u>Component RQ (lbs)</u>	<u>Calculated product RQ(lbs)</u>
NONE			

**SARA 311/312 Hazards:** Flammable (gases, aerosols, liquids, or solids)

**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:**

**California:**

Warning: This product does NOT contain the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

<u>Component Name</u>	<u>CAS Number</u>
NONE	



**State Right-To-Know:**

CAS Number	Wt %	Component Name	State
141-63-9	90 – 100	Dodecamethylpentasiloxane	Pennsylvania

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

**TSCA:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances

**Section 16 – Other Information**

**Further information:**

**HMIS:**

Health: 1  
 Flammability: 0  
 Reactivity: 0  
 Personal Protection: E

**NFPA:**

Health: 1  
 Flammability: 0  
 Reactivity: 0  
 Special: None

**HMIS Classification and NFPA Rating:** 0 = Insignificant  
 1 = Slight  
 2 = Moderate  
 3 = High  
 4 = Extreme

**Full text of other abbreviations:**

**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 Standardization **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** = Global Harmonization System **GLP** = Good Laboratory Practice **HMIS** = Hazardous Material Identification System **IARC** = The International Agency for Research on Cancer **IATA** = International Air Transportation 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 Organization for Standardization **KECI** = Korea Existing Chemicals Inventory **LC50** = Lethal Concentration of 50% of a test population **LD50** = Lethal Dose of 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 Observed (Adverse) 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, Bio accumulative and Toxic Substances **PICCS** = Philippines Inventory of Chemicals and Chemical Substances **(Q)SAR** = (Quantative) 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, Authorization and Restriction of Chemicals **RQ** = Reportable Quantity  
**SADT** = Self-Accelerating Decomposition Temperature **SARA** = Superfund Amendments and Reauthorization Act  
**SDS** = Safety Data Sheet **TCSI** = Taiwan Chemical Substances 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 Bio accumulative

**Prepared by:**

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