

Volatile Silicone Fluid 2 cSt (Dodecamethylpentasiloxane)

Safety Data Sheet · complies with OSHA HazCom 2012 (29 CFR 1910.1200) / GHS · CAS 141-63-9

§1 IDENTIFICATION

Product Name	Volatile Silicone Fluid 2 cSt (Dodecamethylpentasiloxane)
Common Name	MD3M; dodecamethylpentasiloxane; low-viscosity silicone oil
Recommended Use	Volatile carrier fluid; solvent and process intermediate; cosmetic and personal-care ingredient
Restrictions on Use	Industrial and professional use only
Manufacturer / Supplier	
Company	RawSource Inc.
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Emergency Telephone	+1 (754) 306-4363 (business hours) — for a chemical emergency also contact your national poison / emergency service

§2 HAZARD(S) IDENTIFICATION

GHS Hazard Classification	Eye Irritation Category 2A; Flammable Liquid Category 4; Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract irritation); Skin Corrosion/Irritation Category 2
Signal Word	Warning
Pictogram(s)	Exclamation mark

Hazard statement(s)

H227 : Combustible liquid.
 H315 : Causes skin irritation.
 H319 : Causes serious eye irritation.
 H335 : May cause respiratory irritation.

Precautionary statement(s)

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 : Avoid breathing mist / vapours / spray.
 P264 : Wash all exposed external body areas thoroughly after handling.
 P271 : Use only outdoors or in a well-ventilated area.
 P280 : Wear protective gloves / protective clothing / eye protection / face protection.
 P302 + P352 : IF ON SKIN — Wash with plenty of water and soap.
 P304 + P340 : IF INHALED — Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 : IF IN EYES — Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.
 P337 + P313 : If eye irritation persists — get medical advice / attention.
 P403 + P235 : Store in a well-ventilated place. Keep cool.
 P501 : Dispose of contents / container to an authorised hazardous or special-waste collection point in accordance with local regulations.

Other Hazards	Combustible; cumulative effects may result following exposure. Toxic smoke or fumes may be produced in a fire.
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§3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	Dodecamethylpentasiloxane
CAS No.	141-63-9
Concentration	99-100 wt%

§4 FIRST-AID MEASURES

If inhaled

If fumes or combustion products are inhaled, remove from the contaminated area. Lay the patient down, keep warm and rested. Apply artificial respiration if not breathing and transport to hospital or a doctor without delay.

In case of skin contact

Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in the event of irritation.

In case of eye contact

Wash out immediately with fresh running water, keeping eyelids apart. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

If swallowed

Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

§5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam; dry chemical powder; carbon dioxide; water spray or fog (large fires only)

Unsuitable Extinguishing Media

Avoid water jets onto liquid pools

Specific hazards arising from the chemical

Combustible; a slight fire hazard when exposed to heat or flame. Mists containing combustible material may be explosive. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion the product may emit carbon oxides, silicon dioxide and other pyrolysis products typical of burning organic material, and may emit acid or corrosive smoke.

Special protective equipment and precautions for firefighters

Wear full body protective clothing with self-contained breathing apparatus. Cool fire-exposed containers with water spray from a protected location. Prevent fire-control run-off from entering drains or water courses.

§6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance by using protective equipment.

Environmental precautions

Prevent, by any means available, spillage from entering drains or water courses. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

Minor spills: contain and absorb small quantities with vermiculite or other inert absorbent material; wipe up and collect residues in a suitable labelled container. Silicone fluids, even in small quantities, may present a slip hazard. Major spills: clear the area, rope off if necessary, absorb with a suitable absorbent as soon as practically possible and collect for disposal; final cleaning may require use of steam, solvents or detergents.

§7 HANDLING AND STORAGE

Precautions for safe handling

Avoid all personal contact, including inhalation. Use in a well-ventilated area. Avoid smoking, naked lights or ignition sources. Do not allow clothing wet with material to remain in contact with skin. Keep containers securely sealed when not in use and wash hands after handling.

Conditions for safe storage, including incompatibilities

Store in original containers in a cool, dry, well-ventilated area, away from incompatible materials and foodstuff containers. Check containers regularly for leaks. Avoid reaction with oxidising agents.

§8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

No occupational exposure limits established for dodecamethylpentasiloxane.

Appropriate engineering controls

General exhaust is adequate under normal operating conditions; local exhaust ventilation may be required in special circumstances. If a risk of overexposure exists, wear an approved respirator. Provide adequate ventilation in enclosed storage areas.

Eye/Face Protection

Safety glasses with side shields or chemical goggles

Hand Protection

Chemical protective gloves (e.g. neoprene, PVC)

Skin/Body Protection

Overalls and PVC apron; safety footwear

Respiratory Protection

Approved respirator if a risk of overexposure exists

§9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Colourless
Odour	No data available
Melting Point	< -50 degrees C
Boiling Point	230 degrees C
Flash Point	86 degrees C
Relative Density (water = 1)	0.87
Viscosity	2 cSt
Solubility	Immiscible with water; floats on water

§10 STABILITY AND REACTIVITY

Reactivity	See conditions to avoid and incompatible materials
Chemical Stability	Product is considered stable. Hazardous polymerisation will not occur.
Possibility of Hazardous Reactions	Hazardous polymerisation will not occur
Conditions to Avoid	Heat, open flames and other ignition sources
Incompatible Materials	Oxidising agents

Hazardous decomposition products

Combustion or thermal decomposition may yield carbon oxides, silicon dioxide and other pyrolysis products typical of burning organic material.

§11 TOXICOLOGICAL INFORMATION

Acute Toxicity	No data available
Skin Corrosion / Irritation	Classified Skin Corrosion/Irritation Category 2 (causes skin irritation)
Serious Eye Damage / Irritation	Classified Eye Irritation Category 2A (causes serious eye irritation)
Specific Target Organ Toxicity (single exposure)	Category 3 - may cause respiratory irritation
Carcinogenicity	No data available

§12 ECOLOGICAL INFORMATION

No ecotoxicity, persistence, bioaccumulation or mobility data available for this product.

§13 DISPOSAL CONSIDERATIONS

Recycle wherever possible. Consult a licensed waste-management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by burial in a land-fill licensed to accept chemical wastes, or by incineration in a licensed apparatus (after admixture with suitable combustible material).

Do not allow wash water from cleaning or process equipment to enter drains; it may be necessary to collect all wash water for treatment before disposal. Disposal to sewer may be subject to local laws and regulations, which should be considered first. Decontaminate empty containers before disposal.

§14 TRANSPORT INFORMATION

UN RTDG (Land)	Not regulated for transport of dangerous goods
IATA-DGR (Air)	Not regulated for transport of dangerous goods
IMDG Code (Sea)	Not regulated for transport of dangerous goods
Marine Pollutant	No

§15 REGULATORY INFORMATION

Inventory Status	Dodecamethylpentasiloxane is listed on the China Inventory of Existing Chemical Substances.
United States TSCA Inventory	All components of this product are in compliance with the inventory listing requirements of the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

§16 OTHER INFORMATION

Prepared and issued by RawSource Inc. This SDS supersedes any prior version for this material. It relates only to the specific material identified above.

This Safety Data Sheet is provided in good faith and is correct to the best of RawSource's knowledge at the date of publication. It is a guidance for safe handling, use, processing, storage, transport, disposal and release, and is not a warranty or quality specification. It relates only to the specific material identified above. Users must determine the conditions of safe use in their own context.