

Volatile Silicone Fluid 1.5 cSt (Decamethyltetrasiloxane)

Safety Data Sheet · complies with OSHA HazCom 2012 (29 CFR 1910.1200) / GHS · CAS 141-62-8

§1 IDENTIFICATION

Product Name	Volatile Silicone Fluid 1.5 cSt (Decamethyltetrasiloxane)
Common Name	MD2M; decamethyltetrasiloxane; 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	Flammable Liquid Category 4
Signal Word	Warning
Pictogram(s)	Not applicable

Hazard statement(s)

H227 : Combustible liquid.

Precautionary statement(s)

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P235 : Keep cool.

P280 : Wear protective gloves / protective clothing / eye protection / face protection.

P370 + P378 : In case of fire — use alcohol-resistant foam or normal protein foam to extinguish.

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; toxic smoke or fumes may be produced in a fire. Inhalation hazard is increased at higher temperatures.

§3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	Decamethyltetrasiloxane
CAS No.	141-62-8
Concentration	99-100 wt%

§4 FIRST-AID MEASURES

If inhaled

If fumes, aerosols or combustion products are inhaled, remove from the contaminated area. Other measures are usually unnecessary.

In case of skin contact

If skin or hair contact occurs, flush skin and hair with running water (and soap if available). Seek medical attention in the event of irritation.

In case of eye contact

If this product comes in contact with the eyes, wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

If swallowed

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 liquid; a slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion the product may emit carbon monoxide, carbon dioxide, silicon dioxide and other pyrolysis products typical of burning organic material.

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 and prevent concentration of vapour in hollows and sumps. Avoid smoking, naked lights or ignition sources. Keep containers securely sealed when not in use and avoid physical damage.

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. Note: traces of benzene, a carcinogen, may form when silicones are heated in air above 230 degrees C.

§8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters	No occupational exposure limits established for decamethyltetrasiloxane.
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Appropriate engineering controls

General exhaust is adequate under normal operating conditions; local exhaust ventilation may be required in special circumstances. Handle in accordance with good industrial hygiene and safety practice.

Eye/Face Protection	Safety glasses with side shields or chemical goggles
Hand Protection	General protective (e.g. rubber) gloves
Skin/Body Protection	Overalls and apron
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	194 degrees C
Flash Point	63 degrees C
Relative Density (water = 1)	0.85
Viscosity	1.5 cSt
Solubility	Immiscible with water; floats on water

§10 STABILITY AND REACTIVITY

Reactivity	See conditions to avoid and incompatible materials
Chemical Stability	Silicone fluids are stable under normal storage conditions. Hazardous polymerisation will not occur.
Possibility of Hazardous Reactions	Hazardous polymerisation will not occur
Conditions to Avoid	Heat, open flames and other ignition sources; temperatures above 150 degrees C (slow reaction with atmospheric oxygen) and above 300 degrees C (slow depolymerisation to volatile siloxanes)
Incompatible Materials	Oxidising agents; concentrated acids and bases (which cause degradation of the polymer). Boiling water may soften and weaken the material.

Hazardous decomposition products

Combustion or thermal decomposition may yield carbon oxides, silicon dioxide, formaldehyde and other pyrolysis products typical of burning organic material. Traces of benzene, a carcinogen, may form when silicones are heated in air above 230 degrees C.

§11 TOXICOLOGICAL INFORMATION

Acute Toxicity	No data available; acute toxicity of silicone fluids is very low
Skin Corrosion / Irritation	No data available
Serious Eye Damage / Irritation	No data available
Respiratory or Skin Sensitization	No data available
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	Decamethyltetrasiloxane 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.