

Octamethyltrisiloxane (MDM) 1 cSt Volatile Silicone Fluid

Safety Data Sheet · complies with OSHA HazCom 2012 (29 CFR 1910.1200) / GHS · CAS 107-51-7

§1 IDENTIFICATION

Product Name	Octamethyltrisiloxane (Volatile Silicone Fluid, 1 cSt)
Common Name	MDM; octamethyltrisiloxane
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 3
Signal Word	Warning
Pictogram(s)	Flame

Hazard statement(s)

H226 : Flammable liquid and vapour.

Precautionary statement(s)

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

P233 : Keep container tightly closed.

P240 : Ground and bond container and receiving equipment.

P241 : Use explosion-proof electrical, ventilating and lighting equipment.

P242 : Use only non-sparking tools.

P243 : Take precautionary measures against static discharge.

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

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

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

Vapour forms an explosive mixture with air and may travel a considerable distance to a source of ignition. Containers, even when emptied, may retain flammable vapour.

§3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	Octamethyltrisiloxane
CAS No.	107-51-7
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

Liquid and vapour are flammable; a moderate fire and explosion hazard when exposed to heat or flame. Vapour forms an explosive mixture with air and may travel a considerable distance to a source of ignition. 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 and avoid generation of static electricity — earth all lines and equipment and use spark-free tools. Do not use plastic buckets. Containers, even when emptied, may contain explosive vapours — do not cut, drill, grind or weld on or near them.

Conditions for safe storage, including incompatibilities

Consider storage under inert gas. Store in original containers in an approved flammable-liquid storage area, cool, dry and well ventilated, away from incompatible materials. Use non-sparking ventilation and explosion-proof, intrinsically safe electrical equipment. Do not store in pits, depressions or basements where vapours may be trapped. 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 octamethyltrisiloxane.

Appropriate engineering controls

For flammable liquids, local exhaust ventilation or a process-enclosure ventilation system may be required; ventilation equipment should be explosion-resistant. 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. light-weight rubber) gloves

Skin/Body Protection

Overalls and apron; non-static clothing and conductive footwear for large-scale use

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	153 degrees C
Flash Point	29 degrees C
Relative Density (water = 1)	0.82
Viscosity	1 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 significant acute toxicological data identified; 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 Number	1993
UN Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Transport Hazard Class	3
Packing Group	III
Marine Pollutant	No
Special Provisions / Limited Quantity	Special provisions 223; 274; limited quantity 5 L

§15 REGULATORY INFORMATION

Inventory Status	Octamethyltrisiloxane 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.