Methyl Hydrogen Silicone Fluid (Polymethylhydrosiloxane)

Safety Data Sheet · complies with OSHA HazCom 2012 (29 CFR 1910.1200) / GHS · CAS 63148-57-2

§1 IDENTIFICATION

Product Name	Methyl Hydrogen Silicone Fluid (Polymethylhydrosiloxane)
Common Name	Methyl hydrogen polysiloxane; MH fluid; polymethylhydrosiloxane
Recommended Use	Silicone rubber crosslinking agent; modifier; waterproofing agent
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 2B; Skin Corrosion/Irritation Category 3
Signal Word	Warning
Pictogram(s)	Not applicable

Hazard statement(s)

H316 : Causes mild skin irritation.

H320 : Causes eye irritation.

Precautionary statement(s)

P264 : Wash all exposed external body areas thoroughly after handling.

P305 + P351 + P338 : IF IN EYES — Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.

P332 + P313 : If skin irritation occurs — get medical advice / attention.

P337 + P313 : If eye irritation persists — get medical advice / attention.

Other Hazards	Combustible. In use, the product may form a flammable or explosive vapour-air mixture. Floats on water; does not mix with water.

§3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	Methyl hydrogen polysiloxane
CAS No.	63148-57-2
Concentration	> 99.5 wt%

§4 FIRST-AID MEASURES

If inhaled

If fumes, aerosols or combustion products are inhaled, remove from the contaminated area. Keep the patient comfortable for breathing and seek medical attention if symptoms occur.

In case of skin contact

Flush skin with running water (and soap if available). If skin irritation occurs, get medical advice or attention. Wash exposed areas thoroughly after handling.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, then continue rinsing. If eye irritation persists, get medical advice or attention.

If swallowed

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. In use the product may form a flammable or explosive vapour-air mixture. 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.

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 avoid smoking, naked lights or ignition sources. Keep away from water, strong bases and catalysts that may promote gas evolution. 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. Keep containers securely sealed and protected from physical damage; check regularly for leaks. Avoid reaction with oxidising agents, strong acids and bases. 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 methyl hydrogen polysiloxane.

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	Chemical protective gloves
Skin/Body Protection	Overalls and apron; safety footwear
Respiratory Protection	Approved respirator if a risk of overexposure exists

§9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Colourless, transparent
Odour	No data available
Boiling Point	No data available
Flash Point	> 150 degrees C
Relative Density (water = 1)	0.94–0.99
Viscosity	20–30 cSt
Solubility	Immiscible with water; floats on water

§10 STABILITY AND REACTIVITY

Reactivity	May evolve gas on contact with water, strong bases or catalysts
Chemical Stability	Silicone fluids are stable under normal storage conditions. Hazardous polymerisation will not occur.
Possibility of Hazardous Reactions	In use may form a flammable or explosive vapour-air mixture
Conditions to Avoid	Heat and ignition sources; temperatures above 300 degrees C (slow depolymerisation to volatile siloxanes)
Incompatible Materials	Oxidising agents; strong acids and bases; water and catalysts that promote gas evolution

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 3 (mild skin irritation)
Serious Eye Damage / Irritation	Classified Eye Irritation Category 2B (causes eye irritation)
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	Methyl hydrogen polysiloxane is listed on the China Inventory of Existing Chemical Substances and on the US TSCA inventory.
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.