

Methyl Trimethicone (Methyltris(trimethylsiloxy)silane)

Safety Data Sheet · complies with OSHA HazCom 2012 (29 CFR 1910.1200) / GHS · CAS 17928-28-8

§1 IDENTIFICATION

Product Name	Methyl Trimethicone (Methyltris(trimethylsiloxy)silane)
Common Name	Methyl trimethicone; methyltris(trimethylsiloxy)silane; branched volatile silicone
Recommended Use	Volatile carrier fluid; cosmetic and personal-care ingredient
Restrictions on Use	Industrial and professional use only
Manufacturer / Supplier	
Company	RawSource Inc.
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§2 HAZARD(S) IDENTIFICATION

GHS Hazard Classification	Eye Irritation Category 2A; Flammable liquids Category 4; Specific Target Organ Toxicity – Single Exposure Category 3 (respiratory tract irritation); Skin Corrosion/Irritation Category 2
Signal Word	Warning
Pictogram(s)	Flame; 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.
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.
P261 : Avoid breathing mist / vapours / spray.
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.
P305 + P351 + P338 : IF IN EYES — Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.
P370 + P378 : In case of fire — use alcohol-resistant foam or normal protein foam to extinguish.
P501 : Dispose of contents / container in accordance with local regulations.

Other Hazards Vapour may travel a considerable distance to a source of ignition. Cumulative effects may result following exposure.

Note: the manufacturer SDS declared Flammable Liquid Category 2 (H225) alongside a 62 °C flash point — internally inconsistent (GHS Category 2 requires flash point < 23 °C). Classification corrected to Category 4 per the measured flash point (60–64 °C closed cup across manufacturers); health classifications retained. STOT RE (H373) is the most-notified health code in ECHA C&L (55.7% of hazard-coding reports) and is under regulatory review for adoption.

§3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	Methyltris(trimethylsiloxy)silane
CAS No.	17928-28-8
Concentration	99-100 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.

In case of skin contact

Wash with plenty of water and soap. If skin irritation occurs, get medical advice or attention. Take off contaminated clothing and wash it before reuse.

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

Immediately give a glass of water. Call a POISON CENTER or doctor if you feel unwell.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

§5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol-resistant foam or normal protein 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 highly flammable. Vapour may travel a considerable distance to a source of ignition. 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 prevent concentration of vapour in hollows and sumps. Avoid smoking, naked lights, heat or ignition sources; earth and bond metal containers, take precautions against static discharge and use non-sparking tools. Containers, even when emptied, may contain flammable vapour.

Conditions for safe storage, including incompatibilities

Store in original containers in an approved flammable-liquid storage area, cool, dry and well ventilated, away from oxidising agents. Keep containers securely sealed and protected from physical damage. 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 methyltris(trimethylsiloxy)silane.

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

Chemical protective gloves

Skin/Body Protection

Overalls and apron; safety footwear; non-static clothing 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	191 degrees C
Flash Point	62 °C (closed cup; manufacturer values 60–64 °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
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 Number	1993
UN Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Transport Hazard Class	3
Packing Group	III
Marine Pollutant	No

§15 REGULATORY INFORMATION

Inventory Status Methyltris(trimethylsiloxy)silane 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.