SILICONES, INC.

SAFETY DATA SHEET

SI-479

SECTION 1 - IDENTIFICATION

Product Name:	SI-479
Company name of supplier:	Silicones, Incorporated
Address :	P. O. Box 363 211 Woodbine Street High Point, NC 27261
Telephone:	336-886-5018
Emergency telephone:	CHEMTREC 800-424-9300
Recommended use:	Industrial mold making. Not for internal or medical use.

SECTION 2 - HAZARDS IDENTIFICATION

Flammable Liquids, Category 2

Signal word: Danger

Hazard Statements: H225 Highly flammable liquid and vapor

Precautionary Statements: P210 Keep away from heat, sparks, open flame, hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/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.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, eye protection, and face protection.

Response Statements: P303+P361+P353 Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage and Disposal: P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards: Vapors may form explosive mixture with air.
Static-accumulating flammable liquid.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	EXPOSURE LIMITS
Hexamethyldisiloxane	107-46-0	200 ppm, TWA

SECTION 4 – FIRST AID MEASURES

Skin contact: Wash thoroughly with soap and water.

Eye contact: Flush eyes with large quantities of water for at least 15 minutes. Consult a physician or seek medical attention if irritation occurs.

Inhalation: Remove to fresh air if user experiences breathing difficulty.

Ingestion: If swallowed, do not induce vomiting. Consult a physician or seek medical attention if symptoms occur.

SECTION 5– FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical powder, or chemical foam.

Unsuitable extinguishing media: High volume water jet.

Specific hazards: Do not use a solid water stream as it may scatter and spread fire.
Flashback possible over considerable distance.
Vapors may form explosive mixtures with air.
Combustion products may be hazardous to health.

Hazardous combustion products: Carbon monoxide, carbon dioxide, silicon oxides, formaldehyde.

Specific extinguishing methods: Use extinguishing methods that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if safe to do so.
Evacuate area.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus if necessary.
Use personal protective equipment.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Shut off or remove all possible ignition sources.
Ventilate closed areas before entering.

Environmental precautions:
Avoid discharge of material into the environment.
Prevent spills from entering water systems, storm sewers or drains, etc.
Retain and dispose of contaminated wash water.

Methods and materials for containment and clean up:
Non-sparking tools should be used.
Suppress gases/vapors/mist with water spray.
Soak up small spills with sand or other inert absorbent material.
For large spills, use dikes, barricades and absorbent booms to prevent spread of material. If diked material can be pumped, place recovered material in an appropriate container.
Clean up remaining materials from spill with suitable absorbents.
Local or national regulations may apply to releases and disposal of this material, as well as those materials used in cleanup of release. End user will need to determine which regulations are applicable.

SECTION 7 – HANDLING AND STORAGE

Technical measures:
Ensure all equipment is electrically grounded before beginning transfer procedures.
This material can build a static charge during transfer, which can cause an ignition source to vapors. Grounding may be insufficient to remove static electricity; therefore, an inert gas purge before beginning transfer may be necessary.

Local/general ventilation:
Use with explosion proof local exhaust ventilation.

Advice on safe handling:
Avoid breathing of vapor or mist.
Handle in accordance with good industrial hygiene and safety procedures.
Keep container tightly closed.
Use non-sparking tools.
Keep away from heat and sources of ignition.

Conditions for safe storage:
Keep in properly labeled containers.
Keep tightly closed.
Store in a cool, well ventilated place.
Keep away from heat and sources of ignition.

Materials to avoid:
Strong oxidizing agents, organic peroxides, flammable solids, pyrophoric liquids, pyrophoric solids, substances which in contact with water release flammable gases, and self-heating materials.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: 200 ppm, TWA.

Use personal protective gear such as antistatic chemical resistant rubber gloves, rubber or plastic apron, and eye protection (chemical splash goggles.)

Provide explosion proof exhaust ventilation to keep airborne concentration below exposure limits. If engineered air control is not available, use proper NIOSH/MSHA approved respirator for organic solvent vapors.

Do not eat, drink or smoke in work area.
Wash hands after handling product and at end of shift.
Ensure that eye wash stations and safety showers are available in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid.
Odor: Slight
Odor threshold: No data available
Relative Density: 0.76
Melting point/freezing point: No data available
Initial boiling point/boiling range: 212 °F (100 °C)
Lower flammability limit: No data available
Upper flammability limit: No data available
Flash point: 26 °F (Pensky-Martens closed cup)
Auto ignition temperature: 666 °F (352 °C)
Decomposition temperature: No data available
Vapor pressure: 42 hPa
Vapor density: No data available
pH: Not applicable
Solubility in water: Insoluble
Partition coefficient, n-octanol/water: No data available
Evaporation rate: No data available
Explosive properties: Not explosive
Oxidizing properties: Not an oxidizing material
Viscosity: 0.65 cst

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not a reactivity hazard.

Stability: Stable under normal ambient conditions.

Hazardous polymerization: Will not occur

Conditions to avoid: Handling conditions that may produce buildup of static charge.
Heat, flames and sparks.

Incompatible materials: Strong oxidizing materials.

Hazardous thermal decomposition products: Formaldehyde

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Skin contact, eye contact, inhalation, ingestion.

Acute toxicity: Not classified based on available information.

Skin contact: Not a skin irritant.

Eye Contact: Not likely to cause irritation.

Inhalation: Not likely to cause irritation.

Ingestion: No acute oral toxicity.

Carcinogenicity: Not a carcinogen, based on available data.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.46 mg/l
Exposure time: 96 hours

Toxicity to algae: EC50 (selenastrum capricornutum (green algae)): >0.55 mg/l
Exposure Time: 96 hours

M-Factor (Acute aquatic toxicity): 1

Ecotoxicology Assessment Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects.

Biodegradability (hexamethyldisiloxane): Not readily biodegradable.

SECTION 13 – DISPOSAL CONSIDERATIONS

Resource Conservation and Recovery Act: When this material is discarded as supplied, it is classified as a RCRA hazardous waste.

Waste Code: D001: Ignitability

Waste from residues: Dispose of in accordance with federal, state, and local environmental control regulations.

Contaminated packaging: Empty containers should be taken to an approved facility for recycling or disposal. Do not burn, or use a cutting torch on, any empty drums.

SECTION 14 – TRANSPORT INFORMATION

UNRTDG

UN Number: 1993
Proper Shipping Name: Flammable Liquid, N.O.S. (Hexamethyldisiloxane)
Class: 3
Packing Group: II

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UN/NA Number: 1993
Proper Shipping Name: Flammable Liquids, N.O.S. (Hexamethyldisiloxane)
Class: 3
Packing Group: II
Labels: Flammable Liquid
ERG Code: 128
Marine Pollutant: Yes (Hexamethyldisiloxane)

SECTION 15 – REGULATORY INFORMATION

TSCA: All ingredients in this material are included on or exempt from listing on the TSCA Inventory of Chemical Substances.

REACH: All ingredients registered or exempt.

SECTION 16– OTHER

Hazard Rating System:

HMIS: Health 0
Flammability 3
Physical Hazard 0

NFPA: Health 0
Flammability 3
Instability 0
Special Hazard None

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