



SILTECH CORP.

Safety Data Sheet

Prepared in accordance with GHS standards:
OSHA CFR 1910.1200, WHMIS 2015
& Annex II - EC regulation 1907/2006 and amendments

Silmer HQ 20
SDS No: 7051.008

Last Revision Date: February 24, 2017

SECTION 1. IDENTIFICATION

Material Identification: Silmer HQ 20
Chemical Name: MQ Hydride Resin
Chemical Classification: Silicone
CAS #: 68988-57-8

Company Identification: Siltech Corp.
225 Wicksteed Avenue
Toronto, Ontario
Canada
M4H 1G5
(416) 424-4567

Recommended Product Usage

Polymer production
Intermediates

CANUTEC 24-HOUR EMERGENCY RESPONSE TELEPHONE NUMBER: (613) 996-6666
USE IN CASE OF A DANGEROUS GOODS EMERGENCY

SECTION 2. HAZARD(S) IDENTIFICATION

HAZARD CLASSIFICATION:

Flammable liquids Category 4

GHS LABEL ELEMENTS (including precautionary statements):

Symbol : None

Signal Word: Warning

Hazard Risk Statement: H227: Combustible liquid

Precautionary Statement:

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

P240: Ground/bond container and receiving equipment.

P262: Do not get in eyes, on skin or on clothing.

Response: P305 + P351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352: IF ON SKIN: Wash with plenty of water.

Storage: P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal: P501: Dispose of contents/container in accordance with local / regional / national / international regulations.

OTHER HAZARD (risk not included in classification):

Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Common Name or Synonym</u>	<u>CAS No.</u>	<u>EINECS/ ELINCS No.</u>	<u>% (w/w)</u>	<u>GHS Classification</u>
Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with chlorodimethylsilane	MQ Hydride Resin	68988-57-8	N/A	100	Flammable liquid Cat 4

SECTION 4. FIRST AID MEASURES

Eyes: No first aid should be needed. If discomfort occurs, flush with water.

Skin: No first aid should be needed.

Inhalation: No first aid should be needed. If discomfort occurs, remove to fresh air.

Ingestion: No first aid should be needed. If discomfort occurs, obtain medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, dry powder, foam, or water spray. Water can be used to cool fire exposed containers.

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Chemical: Silicon Dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

Special Protective Actions for Fire-Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Use water spray to cool fire exposed containers.

When the fire is put out, hydrogen may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited. Foam blankets may also trap hydrogen or flammable vapors, with the possibility of subsurface explosion.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Avoid eye and skin contact. Use personal protective equipment.

Environmental Precautions: Prevent from entering drains or water sources.

Containment/Clean up: Collect for disposal. Clean up remaining materials from spill with suitable absorbent. For large spills provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean area as appropriate since some silicone material, even in small quantities, may present a slip hazard. Final cleaning may require steam, solvents or detergents.

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Avoid eye and skin contact. Do not take internally. Use with adequate ventilation. Wash after handling. Exercise good industrial hygiene practice.

Storage Conditions: Keep container tightly closed and away from oxidizing materials. Product evolves minute quantities of flammable gas which can accumulate. Adequately ventilate to maintain vapours well below flammability limits and exposure guidelines. Do not repackage. Keep container away from heat, sparks and flames.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT VALUES / BIOLOGICAL LIMIT VALUES:

Industrial Hygiene Standards

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>
None known.		

ENGINEERING CONTROLS:

Local Ventilation: None should be needed.

General ventilation: Recommended.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.

Hand protection: Gloves are not normally required.

Eye protection: Safety glasses should be worn.

Skin protection: Protective equipment is not normally required.

Hygiene measures: Observe good industrial hygiene practices. Wash after handling.

Note: These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added precautions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Clear Liquid	<u>Viscosity@25°C:</u>	12 cps
<u>Colour:</u>	Colourless	<u>Melting/Freezing Point:</u>	Not determined
<u>Odour:</u>	Mild	<u>Initial Boiling Point:</u>	Not determined
<u>Odour Threshold:</u>	Not determined	<u>Boiling Range:</u>	Not determined
<u>Flash Point:</u>	68°C (Pensky-Martens closed cup)	<u>Explosive Properties:</u>	No
<u>Flammability:</u>	Not determined	<u>Vapour Pressure @25°C:</u>	Not determined
<u>Flammability Limits:</u>	Not determined	<u>Vapour Density</u>	Not determined
<u>Auto-ignition Temperature:</u>	Not determined	<u>Partition Coefficient</u>	Not determined
<u>Decomposition Temperature:</u>	Not determined	<u>pH:</u>	Not determined
<u>Specific Gravity @25°C:</u>	0.991	<u>Oxidising Properties:</u>	No
<u>Solubility in Water:</u>	Insoluble	<u>Evaporation Rate:</u>	Not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal usage conditions. Material may decompose (generating heat and gas) if exposed to temperatures in excess of 250°C.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: None known.

Incompatible Materials: Oxidizing material can cause a reaction. Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air.

Hazardous Decomposition Products: The following decomposition products may form during fire or at very high temperatures: Carbon Oxides, Silicon dioxide, Formaldehyde, and traces of incompletely burned carbon compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:

Respiratory: Exposure is expected.

Oral: Exposure is expected.

Eye, Skin: Exposure is expected.

INFORMATION ON THE HEALTH HAZARDS:

Acute Toxicity: None known.

Eyes: Direct contact may cause temporary redness and discomfort.

Skin: No significant irritation expected from a single short-term exposure.

Inhalation: No significant irritation expected from a single short-term exposure.

Ingestion: Low ingestion hazard in normal use.

Chronic Toxicity:

Skin: No known applicable information.

Inhalation: No known applicable information.

Ingestion: Repeated ingestion or swallowing large amounts may injure internally.

Other Health Hazard No known applicable information.

Skin Corrosion/Irritation: No known applicable information.

Serious Eye Damage/Irritation: No known applicable information.

Respiratory Sensitization: No known applicable information.

Skin Sensitization: No known applicable information.

Carcinogenicity: No known applicable information.

Germ Cell Mutagenicity: No known applicable information.

Reproductive Toxicity: No known applicable information.

Specific Target Organ: No known applicable information.

(Systemic Toxicity ó Single exposure)

Specific Target Organ: No known applicable information.

(Systemic Toxicity ó Repeated exposure)

Aspiration Hazard: No known applicable information.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Environmental Effects

- Acute:** No adverse effects on aquatic organisms.
Chronic: No adverse effects on aquatic organisms.

PERSISTENCE AND DEGRADABILITY:

- Degradation:** In soil, siloxanes are degraded.
Environmental Fate and Distribution: Siloxanes are removed from water by sedimentation sewage or binding to sludge.

BIOACCUMULATIVE POTENTIAL:

- Bioaccumulation:** No bioaccumulation potential.

MOBILITY IN SOIL:

None known.

OTHER ADVERSE EFFECTS:

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Product Disposal: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.

Packaging Disposal: Dispose of in accordance with local regulations.

SECTION 14. TRANSPORTATION INFORMATION

AIR TRANSPORT (IATA):

Not subject to IATA regulations.

SEA TRANSPORT (IMDG):

Not subject to IMDG code.

ROAD / RAIL

- CANADA TDG:** Not subject to TDG regulations.
ADR/RID: Not subject to ADR/RID regulations.

US DOT (49 CFR 172.101): (Applicable only to containers over 119 gallons or 450 liters)

- Shipping Name:** Combustible liquid, N.O.S.
Primary Class: CBL
Product Identification Number: NA 1993
Packing Group: III

SECTION 15. REGULATORY INFORMATION

CHEMICAL INVENTORIES:

TSCA:	(USA)	All ingredients are on the inventory.
DSL:	(Canada)	All ingredients are on the inventory.
EINECS:	(EU)	All ingredients are on or exempted (polymer) from the inventory.
AICS:	(Australia)	All ingredients are on the inventory.
IECSC:	(China)	All ingredients are on the inventory.
MITI:	(Japan)	All ingredients are on the inventory.
KECI:	(Korea)	All ingredients are on the inventory.
NZIoC:	(New Zealand)	All ingredients are on the inventory.
CSNN:	(Taiwan)	All ingredients are on the inventory.
PICCS:	(Philippines)	All ingredients are on the inventory.

USA

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances (40 CFR 355):	None
Section 304 CERCLA Hazardous Substances (40 CFR 302):	None
Section 311/312 Hazard Class (40 CFR 370):	Acute: No ; Chronic: No ; Fire: No ; Pressure: No ; Reactive: No
Section 313 Toxic Chemicals (40 CFR 372):	None

Supplemental State Compliance Information

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Massachusetts / New Jersey / Pennsylvania

Does not contain substances at levels which would require listing.

HMIS	
H	1
F	2
R	1



KOREA

Classification and labelling in accordance with Industrial Safety and Health Law:	No subject chemicals.
Chemicals controlled in accordance with Toxic Chemicals Control Act:	No subject chemicals.
Hazardous Material Safety Management Act:	No subject chemicals.
Wastes Management Act:	Product should be disposed of in accordance with Waste Management Law Article 12.

GERMANY

Wassergefährdungsklasse (water hazard class) : WGK 1

GHS

Hazard statement(s) and Precautionary statement(s)

H227: Combustible liquid

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

P240: Ground/bond container and receiving equipment.

P262: Do not get in eyes, on skin or on clothing.

Hazard pictogram(s)

NONE

SECTION 16. OTHER INFORMATION

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This data is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

SDS prepared by: Raj Moonsammy

Address: Siltech Corp
225 Wicksteed Avenue
Toronto, Ontario, Canada M4H 1G5

Telephone: (416) 424-4567

First Issuing Date: May 20, 2013

Revision No.: 4

Latest Revision Date: February 24, 2017

This is the last page.