SAFETY DATA SHEET

1. Identification

Product Identifier: Thermo-Sil NPTM HS Silicone

Other means of identification
Synonyms: Mastic Coating

Recommended use and restriction on use
Recommended use: Protection of construction materials
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information
: Icynene-Lapolla
  15402 Vantage Pkwy East, Suite 322
  Houston, TX 77032

Telephone/General Information
: +1 281 219 4100, (877) 636-2648

Contact Person
: sds@icynene-lapolla.com

Emergency Telephone Number Supplier
: CARECHEM (866) 928-0789

2. Hazard(s) Identification

Hazard Classification

Physical Hazards
Flammable liquids Category 4

Health Hazards
Carcinogenicity Category 1A

Label Elements

Hazard Symbol:
Signal Word: Danger

Hazard Statement: H227; Combustible liquid.
H350; May cause cancer.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response: If exposed or concerned: Get medical advice/attention. In case of fire: Stop leak if safe to do so.

Storage: Store in well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients
Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Calcium Carbonate</td>
<td>471-34-1</td>
<td>20 - &lt;50%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE</td>
<td>13463-67-7</td>
<td>1 - &lt;5%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
<tr>
<td>Titanium, Bis(ethyl acetoacetato)-dispropoxy</td>
<td>27858-32-8</td>
<td>1 - &lt;5%</td>
<td>No data available.</td>
</tr>
<tr>
<td>Octadecanoic acid</td>
<td>57-11-4</td>
<td>1 - &lt;5%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
<tr>
<td>(1) QUARTZ</td>
<td>14808-60-7</td>
<td>0.1 - &lt;1%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: No action shall be taken involving any personal risk or without suitable training.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

Skin Contact: Wash contaminated clothing before reuse. In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.
Indication of immediate medical attention and special treatment needed

Treatment: Treatment is symptomatic and supportive.

5. Fire-fighting measures

General Fire Hazards: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use standard firefighting procedures and consider the hazards of other involved materials.

Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Combustible This product or a component thereof can flow along surfaces to reach a distant ignition source and flash back. Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Product releases methanol during application and curing. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Avoid inhalation of vapors and spray mists. Keep container closed. Keep out of reach of children. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up: Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal. Warn other workers of spill. Keep unauthorized personnel away.
Notification Procedures: Caution: Contaminated surfaces may be slippery. See Section 8 of the SDS for Personal Protective Equipment.

Environmental Precautions: Do not allow runoff to sewer, waterway or ground.

7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is expected; material has a flash point below 200 F. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Use only in well-ventilated areas. See Section 8 of the SDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed. Recommended storage in original container below 30°C (85°F).

8. Exposure controls/personal protection

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Calcium Carbonate - Total</td>
<td>REL</td>
<td>10 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td>(1) Calcium Carbonate - Respirable</td>
<td>REL</td>
<td>5 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td>(1) Calcium Carbonate - Total dust.</td>
<td>PEL</td>
<td>15 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>(1) Calcium Carbonate - Respirable fraction.</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>(1) Calcium Carbonate - Total dust.</td>
<td>TWA</td>
<td>15 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>(1) Calcium Carbonate - Respirable fraction.</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE - Total dust.</td>
<td>PEL</td>
<td>15 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Octadecanoic acid</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td>(1) QUARTZ - Respirable fraction.</td>
<td>TWA</td>
<td>0.025 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td>(1) QUARTZ - Respirable dust.</td>
<td>REL</td>
<td>0.05 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td>TWA</td>
<td>0.1 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
<td></td>
</tr>
<tr>
<td>(1) QUARTZ - Respirable.</td>
<td>TWA</td>
<td>2.4 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>TWA</td>
<td>0.1 mg/m3</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
<td></td>
</tr>
<tr>
<td>(1) QUARTZ</td>
<td>PEL</td>
<td>0.05 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)</td>
</tr>
</tbody>
</table>
Thermo-Sil NPTM HS Silicone Roof Coating

Appropriate Engineering Controls

Eye washes and showers for emergency use.

Individual protection measures, such as personal protective equipment

General information: Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

Eye/face protection: Monogoggles

Skin Protection Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing and eye/face protection.

Respiratory Protection: If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Various</td>
</tr>
<tr>
<td>Odor:</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>70 °C</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No data available.</td>
</tr>
<tr>
<td>Upper/lower limit on flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - upper (%):</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

6/15
Flammability limit - lower (%): No data available.
Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.
Heat of combustion: No data available.
Vapor pressure: No data available.
Vapor density: No data available.
Density: No data available.
Relative density: 1.3
Solubility(ies)
  Solubility in water: No data available.
  Solubility (other): No data available.
Partition coefficient (n-octanol/water) Log Pow: No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
SADT: No data available.
Viscosity, dynamic: No data available.
Viscosity, kinematic: No data available.
VOC: 24 g/l

10. Stability and reactivity

Reactivity: No dangerous reaction if used as recommended.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: Hazardous polymerisation does not occur.
Conditions to avoid: Keep away from heat. Keep away from sources of ignition - No smoking.
Hazardous Decomposition Products: Carbon oxides Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

11. Toxicological information

Information on likely routes of exposure
Ingestion: No data available.
Inhalation: No data available.
Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: ATEmix: 173,611.11 mg/kg

Specified substance(s):
(1) TITANIUM DIOXIDE LD 50 (Rat): > 10,000 mg/kg

Octadecanoic acid LD 50 (Rat, No data available.): > 2,000 mg/kg

Dermal
Product: Not classified for acute toxicity based on available data.

Specified substance(s):
(1) TITANIUM DIOXIDE LD 50 (Rabbit): > 10,000 mg/kg

Inhalation
Product: Not classified for acute toxicity based on available data.

Specified substance(s):
(1) TITANIUM DIOXIDE LC50 (Rat): > 6.8 mg/l

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.
Serious Eye Damage/Eye Irritation
Product: No data available.

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

(1) QUARTZ Overall evaluation: 1. Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:
(1) QUARTZ Known To Be Human Carcinogen.

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product: No data available.

In vivo Product: No data available.

Reproductive toxicity Product: No data available.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure Product: No data available.

Aspiration Hazard Product: No data available.
Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
(1) TITANIUM DIOXIDE LC0 (Leuciscus idus, 48 h): > 1,000 mg/l
Octadecanoic acid LC0 (Brachydanio rerio, 96 h): > 100 mg/l
LC0 (Leuciscus idus, 96 h): > 100 mg/l

Aquatic Invertebrates
Product: No data available.

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
Octadecanoic acid LC0 (Brachydanio rerio, 4 d): > 100 mg/l
LC0 (Leuciscus idus, 4 d): > 100 mg/l

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

Specified substance(s):
(1) TITANIUM DIOXIDE 0 %

BOD/COD Ratio
Product: No data available.
Bioaccumulative potential

**Bioconcentration Factor (BCF)**

*Product:* No data available.

**Partition Coefficient n-octanol / water (log Kow)**

*Product:* No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

- Calcium Carbonate: No data available.
- TITANIUM DIOXIDE: No data available.
- Titanium, Bis(ethyl acetoacetato)-diispropoxy: No data available.
- Octadecanoic acid: No data available.
- QUARTZ: No data available.

**Other adverse effects:** No data available.

### 13. Disposal considerations

**General information:** The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

**Disposal instructions:** Disposal should be made in accordance with federal, state and local regulations.

**Contaminated Packaging:** Dispose of as unused product.

### 14. Transport information

**DOT**

- **UN Number:** NA 1993
- **UN Proper Shipping Name:** Combustible liquid, n.o.s.(Decamethylcyclopentasiloxane)
- **Transport Hazard Class(es):**
  - **Class:** CBL
  - **Label(s):** NONE
  - **Packing Group:** III
  - **Marine Pollutant:** No

**IMDG**

Not regulated.
IATA
Not regulated.

Special precautions for user: This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Fire Hazard
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification
None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Calcium Carbonate</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Titanium, Bis(ethyl acetooacetato)-diispropoxy</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Octadecanoic acid</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>(1) QUARTZ</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.
US State Regulations

US. California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

(1) TITANIUM DIOXIDE Carcinogenic.
(1) QUARTZ Carcinogenic.
Methanol Maximum Allowable Dose Level
(MADL): 47000 µg/day.
Developmental toxin.

US. New Jersey Worker and Community Right-to-Know Act
Chemical Identity
Siloxanes and Silicones, di-Me hydroxy terminated
(1) Calcium Carbonate
Decamethylcyclopentasiloxane
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl) - , reaction products with ammonia, octamethylcyclotetrasiloxane and silica
(1) TITANIUM DIOXIDE
(1) QUARTZ

US. Massachusetts RTK - Substance List
Chemical Identity
(1) Calcium Carbonate
(1) TITANIUM DIOXIDE
(1) QUARTZ

US. Pennsylvania RTK - Hazardous Substances
Chemical Identity
(1) Calcium Carbonate
(1) TITANIUM DIOXIDE

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.
### Inventory Status:

<table>
<thead>
<tr>
<th>Region</th>
<th>Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia AICS</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>EU EINECS List</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>Japan (ENCS) List</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>China Inventory of Existing</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>Chemical Substances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Korea Existing Chemicals Inv.</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>(KECI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada DSL Inventory List</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>Canada NDSL Inventory</td>
<td>n (Negative listing)</td>
<td>None.</td>
</tr>
<tr>
<td>Philippines PICCS</td>
<td>y (positive listing)</td>
<td>None.</td>
</tr>
<tr>
<td>US TSCA Inventory</td>
<td>y (positive listing)</td>
<td>Remarks: On TSCA Inventory</td>
</tr>
<tr>
<td>Taiwan. Taiwan inventory</td>
<td>y (positive listing)</td>
<td>Remarks: None.</td>
</tr>
<tr>
<td>(CSNN)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 16. Other information, including date of preparation or last revision

**HMIS Hazard ID**

<table>
<thead>
<tr>
<th>Health</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Physical Hazards</td>
<td>1</td>
</tr>
</tbody>
</table>

**Issue Date:** 04/21/2017  
**Revision Date:** No data available.  
**Version #:** 3.3  
**Further Information:** No data available.
Disclaimer:

**Notice to reader**

Unless otherwise specified in section 1, Icynene-Lapolla products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

**Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.