1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 670LS Karna-Sil Silicone Coating

PRODUCT CODE: 670LS Karna-Sil Silicone Coating

SYNONYMS: 

CAS NUMBER: 

PRODUCT USE: See Technical Data Sheet

MANUFACTURER
Karnak Corporation
330 Central Avenue
Clark, NJ 07066
www.karnakcorp.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Colored liquid

IMMEDIATE CONCERNS: None

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation

SKIN: May cause skin irritation

SKIN ABSORPTION: Causes skin irritation.

INGESTION: Harmful if swallowed.

INHALATION: Harmful by inhalation.

CHRONIC: Prolonged or repeated skin contact may cause dryness, defatting, and dermatitis.

CARCINOGENICITY: The ingredients of this product are known to the state of California to be carcinogenic. The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP. No significant exposure to any ingredient is thought to occur during the use in which the ingredients are bound to other materials in the liquid state as in paints and coatings

MUTAGENICITY: There is no substantial evidence of mutagenic potential.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: Not Applicable

TERATOGENIC EFFECTS: Not Applicable

IRRITANCY: Not Applicable

PICTOGRAMS

SIGNAL WORD: Danger

HAZARD STATEMENTS: Flammable liquid and vapor. Causes eye irritation. May cause cancer (crystalline silica is a known carcinogen if inhaled). Harmful to aquatic life. Harmful if swallowed and enters airways.

PRECAUTIONARY STATEMENTS: Keep container tightly closed. Keep away from heat/sparks/open flame. - No smoking. Wear protective gloves and eye/face protection. Ground/Bond container equipment. For Industrial and Institutional Use Only – For outside use only Use explosion-proof electrical/ventilating/lighting/ equipment and non-sparking tools. Take precautionary measures against static discharge. Store in cool/well-ventilated place. Avoid release to the environment. Avoid activities (sanding, crushing) of finished product that can produce airborne fibers.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polydimethylsiloxane, Dihydroxy Terminated</td>
<td>35% to 40%</td>
<td>70131-67-8</td>
</tr>
<tr>
<td>Crystalline Sodium Potassium Aluminosilicate (Quartz)**</td>
<td>30% to 35%</td>
<td>14808-60-7</td>
</tr>
<tr>
<td>Petroleum Distillates</td>
<td>15% to 20%</td>
<td>64742-47-8</td>
</tr>
<tr>
<td>Titanium Dioxide**</td>
<td>5% to 10%</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>Methyl Oximino Silane</td>
<td>0% to 5%</td>
<td>22984-54-9</td>
</tr>
</tbody>
</table>

* Toxic chemical subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

** These materials are bound in liquid/paint and are not airborne or in dust form.

"WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

4. FIRST AID MEASURES
EYES: In case of contact, flush eyes with large amounts of running water for at least 15 min. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention

SKIN: Remove as much of the material as possible using mechanical/waterless methods before washing with water. Seek medical attention for any burns or irritation resulting from contact with cure by-products.

INGESTION: Never give an unconscious person anything to drink. If unconscious, treat for shock. Notify a physician or the nearest poison control center immediately. If conscious, have the person rinse his mouth with cold water. Do not attempt to induce vomiting (vomiting may occur naturally, but should be avoided if possible). If unconscious and vomiting, turn the person to his side to avoid choking.

INHALATION: If inhaled, remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
SYMPTOMS: Not Applicable
EFFECTS: Not Applicable

NOTES TO PHYSICIAN: Not Applicable

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use foam, dry chemical, CO2, or water.

FIRE FIGHTING PROCEDURES: As appropriate for surrounding materials/equipment. If electrical equipment is involved, the use of foam should be avoided. Use water spray to cool non-involved containers.

UNUSUAL FIRE AND EXPLOSION HAZARD: There are no known unusual fire or explosion hazards.

COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Remove all sources of ignition. Ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite or sand, and place in a closed container. In case of large spill, dike the area to prevent this material from entering water systems or sewers.

LARGE SPILL: For major spills call Chemtrec (800-424-9300).
ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Not Applicable

LAND SPILL: Not Applicable

PERSONAL PRECAUTIONS: Wear protective gloves/protective clothing/eye protection/face protection.

PROTECTIVE EQUIPMENT: Not Applicable

EMERGENCY PRECAUTIONS: Not Applicable

METHOD OF CLEANING UP: Collect spillage.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid breathing aerosols, spray mists and heated vapors. Avoid prolonged or repeated skin contact.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: Keep containers properly sealed when stored indoors, in a cool well-ventilated area. Keep contents away from moisture. Keep away from heat, sparks and open flame. As standard practice, never use welding or cutting torch on or near any container (even empty) as an explosion may occur. Care should be taken to prevent moisture condensation in the container. Avoid storage above 100°F.

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

OSHA TABLE COMMENTS:
NL = Not Listed

EXPOSURE LIMITS: Not Applicable

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
SKIN: Wear chemical resistant gloves. Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Eye wash station and safety shower should be available.

RESPIRATORY: Use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended.

WORK HYGIENIC PRACTICES: Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverages should be kept away from areas where the product is used or stored. Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used.

OTHER USE PRECAUTIONS: Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

COMMENTS: Not Applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous liquid
COLOR: White, Gray, Tan, etc.
ODOUR: Petroleum odor
ODOUR THRESHOLD: Not Applicable
pH: Not Applicable
MELTING POINT: Not Applicable
BOILING POINT: 310 - 385°F
FLASH POINT AND METHOD: >108°F (COC) ASTM D-92
EVAPORATION RATE: Slower than ether
FLAMMABILITY(Solid/Gas): Not Applicable
FLAMMABLE LIMITS: Not Applicable TO Not Applicable
VAPOUR PRESSURE: Not Determined
VAPOUR DENSITY: Heavier than air
SPECIFIC GRAVITY: 1.24

% SOLUBILITY IN WATER:
OCTANOL/WATER PARTITION COEFFICIENT: Not Applicable
AUTO-IGNITION TEMPERATURE: Not Applicable
DECOMPOSITION TEMPERATURE: Not Applicable
POUR POINT: Not Applicable
MOLECULAR FORMULA:
% VOLATILE: Not Applicable
Viscosity: Not Applicable
MOLECULAR WEIGHT:

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Keep away from heat, sparks, or flames
STABILITY: This is a stable product.
POLYMERIZATION: Not Applicable
HAZARDOUS DECOMPOSITION PRODUCTS: By high heat or fire: Carbon Monoxide, Oxides of Nitrogen and various hydrocarbon fragments.
INCOMPATIBLE MATERIALS: Avoid strong oxidizing agents, concentrated nitric and sulfuric acids, halogen, and molten sulfur.
POSSIBILITY OF HAZARDOUS REACTIONS: Not Applicable

11. TOXICOLOGICAL INFORMATION
Safety Data Sheet
670LS Karna-Sil (Low VOC)

SIGNs AND SYMPTOMS OF OVEREXPOSURE: Dizziness and shortness of breath.

ACUTE EFFECTS:

**EYE:** Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, and swelling.

**SKIN:** Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

**INHALATION:** Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are more likely seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include: Irritation (nose, throat, and respiratory tract), metallic taste in mouth, impaired coordination, confusion, CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness).

**INGESTION:** Single dose or oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Symptoms may include: Gastrointestinal irritation (nausea, vomiting, and diarrhea) and possible liver damage. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

**TARGET ORGAN:** Not Applicable

**CHRONIC EFFECTS:** Not Applicable

**ACUTE TOXICITY VALUES:** Not Applicable

**SYMPTOMS OF RELATED PHYSICAL:** Not Applicable

**CHEMICAL:** Not Applicable

**TOXICOLOGICAL CHARACTERISTICS:** Not Applicable

**DELAYED AND IMMEDIATE EFFECTS:** Not Applicable

12. ECOLOGICAL INFORMATION
ECOTOXICOLOGICAL INFORMATION: Not Applicable

PERSISTENCE AND DEGRADABILITY: Not Applicable

BIO-ACCUMULATIVE POTENTIAL: Not Applicable

MOBILITY: Not Applicable

OTHER ADVERSE EFFECTS: Not Applicable

## 13. DISPOSAL CONSIDERATIONS

**WASTE TREATMENT METHODS**

**DISPOSAL METHOD:** This product has been tested and found to have a flash point below 140°F. If discarded in liquid form, this product may be treated as hazardous waste based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261).

**EMPTY CONTAINER:** Not Applicable

## 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>DOT (Domestic Ground Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
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</thead>
<tbody>
<tr>
<td>Not regulated, non-bulk</td>
<td>UN1993</td>
<td>UN1993</td>
</tr>
<tr>
<td></td>
<td>Flammable liquid NOS</td>
<td>Flammable liquid NOS</td>
</tr>
<tr>
<td>IMO: 3</td>
<td>Air Class: 3</td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>EmS No. F-E, S-E</td>
<td>III</td>
</tr>
</tbody>
</table>

**14.5. Environmental hazards**

**IMDG:** Marine Pollutant: No  
**Air Class:** 3

**14.6. Special precautions for user**

ERG Guide 130  
ERG Guide 130

## 15. REGULATORY INFORMATION
UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: This material does not contain any substances in the list of Toxic Chemicals subject to Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III), in excess of the applicable de minimis concentrations as specified in Section 372.38 (a).

FIRE: Yes
PRESSURE GENERATING: No
REACTIVITY: No
ACUTE: Yes
CHRONIC: Not Applicable

313 REPORTABLE INGREDIENTS:

Reportable Component
CAS No
Weight % (+ 2%)
Crystalline Silica 14808-60-731 (as respirable dust only, not while in liquid form)

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Not Applicable

California Proposition 65 (>0.0%):

⚠ WARNING: This product can expose you to chemicals including titanium dioxide, which is known to the State of California to cause cancer and/or reproductive hazards. For more information, go to www.P65Warnings.ca.gov.

OTHER REGULATION: Not Applicable
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS RATING</th>
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</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
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REVISION INDICATOR : 1.0

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