



TKB TRADING, LLC  
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## MATERIAL SAFETY DATA SHEET

### PRODUCT INFORMATION

Product Name: **SILICONE GEL**  
Chemical Name: Organopolysiloxane

TKB Trading, LLC  
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Data Prepared: September, 2005  
Last Revised: November, 2008  
Date Revised: February, 2009

INGREDIENT	CAS #	
Decamethylcyclopentasiloxane	541-02-6	90.00-98.00
Reaction product of dimethyl siloxane, vinyl-terminated and dimethyl, methyl-hydrogen siloxane	156065-02-0	2.00-10.00

### PRECAUTIONARY STATEMENT

The principal hazards of this product as supplied are:

Combustible liquid can form combustible mixtures at temperatures at or above the flashpoint. Static discharge, material can accumulate static charges, which can cause an incendiary electric discharge. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

Empty drums should be completely drained, properly bunged, promptly returned to a drum reconditioning source, or properly disposed of.

<b>SECTION IV:</b>	<b>HEALTH INFORMATION &amp; PROTECTION</b>
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**EYE CONTACT:** May cause slight eye irritation.

**SKIN CONTACT:** May cause slight skin irritation.

**INHALATION:** No irritation to nose or throat expected. No injury is likely from relatively short exposure.

**INGESTION:** No known, adverse chronic health effects, but unnecessary exposure to any chemical should be avoided. This product, as with any chemical, may enhance allergic conditions on certain people. There are no known, medical conditions that might be aggravated by exposure to this product.

**FIRST AID**

**EYE CONTACT:** Flush eyes with large amounts of water for at least 15 minutes or until irritation subsides. If irritation persists, get medical attention.

**SKIN CONTACT:** Remove product from skin with dry cloth or towel, and wash exposed areas with detergent. Remove grossly contaminated clothing, including shoes. Launder before reuse.

**INHALATION:** Remove to fresh air.

**INGESTION:** Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician immediately.

<b>SECTION V:</b>	<b>FIRE &amp; EXPLOSION HAZARD</b>
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**FLASHPOINT:** 76°C (168.8°F)      **METHOD:** Closed cup

**BOILING POINT:** 210°C (410°F)

Empty drums should be completely drained, properly bunged, promptly returned to a drum reconditioned, or properly disposed of.

**FIRE FIGHTING:**

Use water spray to cool fire exposed surfaces and to protect personal. Isolate "fuel" supply from fire. Use foam, dry chemical, or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boilover.

## **SECTION VI: SPILL CONTROL PROCEDURE**

### **LAND SPILL:**

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills, implement cleanup procedures. For large spills, implement cleanup procedures and if in public area, keep public away and advise authorities. Also, if this product is subject to CERLA reporting notify the National Response Center.

### **WATER SPILL:**

Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal regulated material and ensures conformity to local disposal regulations.

## **SECTION VII: HAZARD RATINGS**

This information is for people trained in:

National Paint & Coatings Association (NPCA)  
Hazardous Materials Identification System (HMIS)  
National Fire Protection Association (NFPA 704)  
Identification of the Fire Hazards of Material.

	<u>NPCA - HMIS</u>	<u>NFPA 704</u>	<u>KEY</u>
HEALTH	0	0	4 - Severe
FLAMMABILITY	2	2	3 - Serious
REACTIVITY	0	0	2 - Moderate
			1 - Slight
			0 - Minimal

## **SECTION VIII: TRANSPORT INFORMATION**

SEE COMPLETE TRANSPORT INFORMATION ON PAGE 4

## **SECTION VIII: TRANSPORT INFORMATION**

### DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name: COMBUSTIBLE LIQUID, N.O.S.

Hazard Technical Name: ORGANOSILOXANE

Hazard Class: C

UN/NA Number: NA1993

Packing Group: III

Hazard Label(s): None

Remarks: Above applies to containers over 119 gallons or 450 liters.

### Ocean Shipment (IMDG)

Not subject to IMDG code.

### Air Shipment (IATA)

Not subject to IATA regulations

## **SECTION IX: TYPICAL PHYSICAL & CHEMICAL PROPERTIES**

Specific Gravity:	0.96 @ 25°C
Vapor Pressure:	1.00 mmHg @ 20°C [Decamethylcyclopentasiloxane]
Vapor Density:	>1 [Decamethylcyclopentasiloxane]
Evaporation Rate:	<1 (Butyl Acetate = 1)
Appearance (form):	Paste
Water Solubility:	Insoluble
Color:	Colorless, transparent

## **SECTION X: REACTIVITY DATA**

Conditions to avoid hazardous polymerization:	Not Applicable
Materials & conditions to avoid incompatibility:	None
Hazardous decomposition products:	None

## **SECTION XI: STORAGE & HANDLING**

Electrostatic Accumulation:	Use proper grounding procedure
Storage Temperature:	Ambient
Storage / Transport Pressure:	Atmospheric
Loading / Unloading Temperature:	Ambient

## **SECTION XII: TOXICOLOGICAL INFORMATION**

### Eye Irritation

Eye-Rabbit: MILD [Decamethylcyclopentasiloxane]

### Skin Irritation

Patch Test (24 Hr/Open): Almost Negative (1%) [Decamethylcyclopentasiloxane]

### Skin Sensitization Potential

No evidence of sensitization [Decamethylcyclopentasiloxane]

### Acute Toxicity

LD50 (Oral/Rat) : >5 g/kg [Decamethylcyclopentasiloxane]

LC50 (Inhalation/Rat) : >5g/m<sup>3</sup>/Hr (estimated by similar dimethylsiloxane)  
[Decamethylcyclopentasiloxane]

### Subacute Toxicity

Repeated inhalation or oral exposure of mice and rats to decamethylcyclopentasiloxane produced an increase in liver size. No gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, a transient increase in the number of normal cells, and an increase in cell size were determined to be underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive.

### Component Toxicology Information

Recent results from a 2-year repeated vapor inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. These effects, which have been shown to be rat-specific, occur at the highest exposure dose (160 ppm) only, a level that greatly exceeds typical workplace or consumer exposures. Industrial, commercial, or consumer uses of products containing D5 do not represent a risk to humans.

### Carcinogenicity

NTP: Not listed, IARC: Not listed, OSHA REGULATED: Not listed

### Mutagenicity

Negative (Bacteria) [Decamethylcyclopentasiloxane]

### Special Hazard Information on Components

No known applicable information.

### **SECTION XIII: ECOLOGICAL INFORMATION**

#### Environmental Fate and Distribution

Complete information is not yet available.

#### Environmental Effects

Complete information is not yet available.

#### Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

### **SECTION XIV: REGULATORY INFORMATION**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EINECS Status: Listed

#### 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:	Yes
Pressure:	No
Reactive:	No

Section 313 Toxic Chemicals (40 CFR 372): None present in regulated quantities.

#### California Proposition 65:

This regulation requires a warning for California Proposition 65 Chemical (s) under the statute.

The California Proposition 65 Chemical (s) contained in this product are:

CHEMICAL NAME/ (CAS No.) AND CONTENTS: \*\* None \*\*

**SECTION XV:****OTHER INFORMATION**

The information set forth herein is presented in good faith and believed to be correct, however TKB Trading, LLC makes no representations as the completeness or accuracy thereof. Information is supplied on the condition that persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no even will TKB Trading, LLC be responsible for damages of any nature whatsoever resulting from the use of or reliance on this information.