

MATERIAL SAFETY DATA SHEET

SECTION I:**PRODUCT INFORMATION**

Product Name: Dimethicon 350 (DM-350)

Chemical Name: Dimethylpolysiloxane

Supplier: TKB Trading LLC.
1101 9th Avenue
Oakland, CA 94606

Contact Tel: (510) 922-9027

Data Prepared: December, 2001

Last Revised: July, 2009

Date Revised: February, 2013

SECTION II:**INGREDIENT INFORMATION**

<u>INGREDIENT</u>	<u>CAS #</u>	<u>% WT.</u>
Dimethylpolysiloxane	63148-62-9	85.0-100.0

Comments: Any components listed above are hazardous as defined in 29 CFR 1910.1200 or provided as an informational aid.

NFPA Profile: Health 0, Flammability 1, Reactivity 0, Instability 0

SECTION III:**HAZARDS IDENTIFICATION**POTENTIAL HEALTH EFFECTSAcute Effects:

Eye: Direct contact may cause temporary redness and discomfort.
Skin: No significant irritation expected from a single short-term exposure.
Inhalation: No significant effects expected from a single short-term exposure.
Oral: Low ingestion hazard in normal use. Empty drums should be completely drained, properly bunged, promptly returned to a drum reconditioning source, or properly disposed of.

Prolonged/Repeated Exposure Effects:

No known applicable information.

MATERIAL SAFETY DATA SHEET

SECTION IV: FIRST AID MEASURES

Eye: If irritation occurs, flush eye(s) with lukewarm gently flowing water for 5 minutes. Obtain medical attention.

Skin: No health effects expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

Oral: If irritation or discomfort occurs, obtain medical advice.

SECTION V: FIRE & EXPLOSION HAZARD

FLASHPOINT: > 248 °F / > 120 °C (Closed Cup)

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: ACCIDENTAL RELEASE MEASURES

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. 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 up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable.

SECTION VII: HANDLING AND STORAGE

Use with adequate ventilation.
Avoid eye contact.
Use reasonable care and store away from oxidizing materials.

MATERIAL SAFETY DATA SHEET

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation (Refer to section VII)

EXPOSURE CONTROLS FOR HAZARDOUS COMPONENTS:

Name: DM-35 CAS #: 63148-62-9 Exposure Limits

None of components listed have assigned exposure limits.

PERSONAL PROTECTION EQUIPMENT:

Respiratory protection: Not normally required.

Hand protection: Gloves are not normally required

Skin protection: Protective equipment is not normally necessary.

Eye/face protection: Safety glasses should be worn.

Hygiene measures:

Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Environmental exposure controls:

Refer to section V1 and X11.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity:	0.970 @ 25°C (77°F)
Vapor Pressure:	Negligible @ 25°C (77°F)
Vapor Density (air= 1):	Not applicable
Viscosity:	350 @ 25°C (77°F)
Stability:	Stable
Solubility in Water:	Insoluble
Color:	Colorless, transparent
Odor:	Odorless

SECTION X: STABILITY & REACTIVITY

Conditions to avoid hazardous polymerization:	Not Applicable
Materials & conditions to avoid incompatibility:	Strong oxidizing agents

MATERIAL SAFETY DATA SHEET

SECTION X: STABILITY & REACTIVITY

cont'd.

Hazardous decomposition products:

thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

SECTION XI: TOXICOLOGICAL INFORMATION

Acute Toxicology Data for Product:

	<u>Species</u>	<u>Test Results</u>
Oral LD50:	Rat	> 15,400 mg/kg
Dermal LD50:	Rabbit	> 2,000 mg/kg

Special Hazard Information on Components:

No known applicable information.

SECTION XII: ECOLOGICAL INFORMATION

Air: This product contains a high molecular weight liquid polymer which has a very low vapor pressure (<1 mm Hg). As a result it is unlikely to become an atmospheric contaminant unless generated as an aerosol.

Water: This product has very low water solubility (< 100 ppb). As it has a specific gravity of < 1, if discharged to water, it will initially form a surface film. As the product is non-volatile and has a high binding affinity for particulate matter, it will adsorb to particulates and sediment out.

Soil: If discharged to surface water, this product will bind to sediment. If discharged in effluent to wastewater treatment plant, the product is removed from the aqueous phase by binding to sewage sludge. If the sewage sludge is subsequently spread on soil, the silicone product is expected to degrade.

Degradation:

This product, polydimethylsiloxane, degrades in soil abiotically to form smaller molecules. These in turn are either biodegraded in soil or volatilized into the air where they are broken down in the presence of sunlight. Under appropriate conditions, the ultimate degradation products are inorganic silica, carbon dioxide and water vapor. Due to the very low water solubility of this product, standard OECD protocols for ready and inherent biodegradability are not suitable for measuring the biodegradability of this product. The product is removed >80% during the sewage treatment process.

Environmental Effects:

Toxicity to Water Organisms:

MATERIAL SAFETY DATA SHEET

SECTION XII:

ECOLOGICAL INFORMATION

cont'd.

Based on analogy to similar materials this product is expected to *exhibit low toxicity* to aquatic organisms. Toxicity to Soil Organisms: Experiments show that when sewage sludge containing polydimethylsiloxane is added to soil, it has no effect on soil micro-organisms, earthworms or subsequent crops grown in the soil.

Bioaccumulation:

This product is a liquid and is a high molecular weight polymer. Due to its physical size it is unable to pass through, or be absorbed by biological membranes. This has been confirmed by testing or analogy with similar products.

Fate and Effects in Waste Water Treatment Plants:

This product or similar products has been shown to be non-toxic to sewage sludge bacteria.

SECTION XIII:

DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

SECTION XIV:

TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

Call TKB Trading, LLC., (510) 922-9027, if additional information is required.

MATERIAL SAFETY DATA SHEET

SECTION XV: 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.

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 present in regulated quantities.

SECTION XVI: OTHER INFORMATION

These data are 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.