

1. Identification

Product Identifier: **Print-On® Silicone Ink Thinner/Diluent**
 Product Code(s): **RMSINKDIL**
 Use: Silicone Ink Thinner. Silicone Ink Thinner for personal care and industrial products.
 Manufacturer: Raw Material Suppliers
 872 Towne Center Drive, Pomona, CA 91767
 Phone Number: +1-909-621-5871 (8 a.m. to 4p.m. PST)
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2. Hazards Identification

GHS Classification: Flammable Liquids Category 4
 Aspiration Hazard Category 1

Label Elements: Danger



Hazard Phrases

H227 Combustible liquid.
 H304 May be fatal if swallowed and enters airways.

Precautionary Phrases

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves/eye protection/face protection.
 P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P331 Do NOT induce vomiting.
 P370+378 In case of fire: Use appropriate media to extinguish.
 P403 Store in a well-ventilated area.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Information: None.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Decamethylcyclopentasiloxane	541-02-6	>60-<90
Components not listed are either non-hazardous or are below reportable limits.		

4. First-Aid Measures

Eye Contact: Rinse with water. Get medical attention if irritation develops or persists.
Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.
Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into lungs. Do not use mouth-to-mouth method if victim ingested substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most Important Symptoms/Effects: Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation.

Indication of Immediate Medical Attention/Special Treatment:

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water fog. Foam. Carbon dioxide (CO₂) Dry chemical powder.
Unsuitable Extinguishing Media: Do not use water jet as extinguisher, as this will spread the fire.
Specific Hazards: The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.
Special Protective Equipment and Precautions for Fire-Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting Equipment/Instructions: In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific Methods: Use standard firefighting procedures and consider the hazards of other involved materials.
General Fire Hazards: Combustible liquid.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS
Methods and Materials for Containment and Cleanup: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for Safe Handling: Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing.
Conditions for Safe Storage: Store locked up. Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure Controls/Personal Protection

Exposure Limits: For Decamethylcyclopentasiloxane (CAS 541-02-6):
 NIOSH REL 0.01 mg/m³

Biological Limit Values: No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection: Hand protection, Wear protective gloves. Other Wear suitable protective clothing.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance: Liquid

Odor: No odor

Odor Threshold: No data available

pH: Not applicable

Melting Point: No data available

Boiling Point: No data available; will decompose before it will boil.

Flash Point: >205°F (Setaflash)

Evaporation Rate: No data available

Flammable Limits: No data available

Vapor Pressure: <0.2 kPa @68°F

Vapor Density: All vapors are denser than air

Relative Density: 1.2 g/mL

Solubility: Insoluble in water

Partition Coefficient: n-octanol/Water: No data available

Auto-Ignition Temp: >150°C

Decomposition Temp: No data available

Viscosity: No data available

Appearance:

Physical state: Liquid.

Form: Liquid. Paste.

Color: Water white.

Odor: Mild to none.

Odor threshold: Not available.

pH: Not available.

Melting point/freezing point: -47.2 °F (-44 °C)

Initial boiling point and boiling range: 411.8 °F (211 °C)

Flash point: 170.6 °F (77.0 °C) Pensky-Martens Closed Cup

Evaporation rate: < 1 (n-butyl acetate = 1)

Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%): Not available.

Flammability limit - upper (%): Not available.

Explosive limit - lower (%): Not available.

Explosive limit - upper (%): Not available.

Vapor pressure: 0.02 kPa (20 °C)

Vapor density: > 1 (air=1) (25 °C)

Relative density: 0.95 (25 °C)

Solubility: Insoluble (in water).

Partition coefficient (n-octanol/water): Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: 3.8 cSt (20 °C)

Percent volatile: Not determined.

10. Stability and Reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: No hazardous decomposition products are known.

11. Toxicological Information

Information on likely routes of exposure

Inhalation: May be fatal if swallowed and enters airways.

Skin contact: No adverse effects due to skin contact are expected.

Eye contact: Direct contact with eyes may cause temporary irritation.

Ingestion: May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics:

Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity: May be fatal if swallowed and enters airways.

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation: Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization:

Respiratory sensitization: Not available.

Skin sensitization: This product is not expected to cause skin sensitization.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
 Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects. Results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date have not demonstrated if this effect occurs through a pathway that is relevant to humans.

Specific target organ toxicity - single exposure: Not classified.

Specific target organ toxicity - repeated exposure: Not classified.

Aspiration hazard: May be fatal if swallowed and enters airways.

12. Ecological Information

SAFETY DATA SHEET

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability: No data is available on the degradability of this product.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT:

UN number: NA1993

UN proper shipping name: Combustible Liquid, n.o.s (Decamethylcyclopentasiloxane)

Transport hazard class(es):

Class: Combustible Liquid

Subsidiary risk: -

Packing group: III

Special precautions for user: This material is classified as a combustible liquid when shipped in bulk packaging >119 G/450 L. This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less. Read safety instructions, SDS and emergency procedures before handling.

Special provisions: IB3, T1, T4, TP1

Packaging exceptions: 150

Packaging non bulk: 203

Packaging bulk: 241

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not established

15. Regulatory Information

U.S. FEDERAL REGULATIONS: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

CERCLA 103 Reportable Quantity (RQ): Not listed.

US SARA Reporting Requirements: The components of this product are subject to the reporting requirements of Section 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act, and are listed as follows:

Section 302 (40 CFR 355, Appendix A): None

Section 304 (40 CFR 302.4): None

Section 313 (40 CFR 372.65): None

SARA 311/312 (40 CFR 370) Hazards: Acute: Yes, Chronic: No, Fire: No, Pressure: No

Other federal regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Safe Drinking Water Act (SDWA): Not regulated

US State Regulations:

US. Massachusetts RTK - Substance List: Not regulated.

US. New Jersey Worker and Community Right-to-Know Act: Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law: Not listed.

US. Rhode Island RTK: Not regulated.

US. California Proposition 65: This product contains the following chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm: None known.

International Inventories:

Country	Inventory Name	On Inventory (Y/N)
Australia	Australian Inventory of Chemical Substances (AICS)	Y
Canada	Domestic Substances List (DSL)	Y
Canada	Non-Domestic Substances List (NDSL)	N
China	Inventory of Existing Chemical Substances in China (IECSC)	Y
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Y
Europe	European List of Notified Chemical Substances (ELINCS)	N
Japan	Existing and New Chemical Substances (ENCS)	Y
Korea	Existing Chemicals List (ECL)	Y
New Zealand	New Zealand Inventory	Y
Phillippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Y

*A "Y" indicates this product complies with the inventory requirements administered by the governing country(s). A "N" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

Recommended Uses and Restrictions: Intended for industrial or professional use only.

HMIS Ratings: Health: 2

Flammability: 2

Physical hazard: 0

SDS Revision Notes: New edition: June 21, 2018

Disclaimer: The information contained herein is considered accurate; however, Polytek® makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.