RAW MATERIAL SUPPLIERS
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SAFETY DATA SHEET

1. Identification

Product Identifier: **Print-On® Silicone Ink Catalyst**
Product Code(s): RMS5686A
Use: Silicone ink. For Industrial/Professional use only.
Manufacturer: Raw Material Suppliers
872 Towne Center Drive, Pomona, CA 91767
Phone Number: +1-909-621-5871 (8 a.m. to 4p.m. PST)
Emergency Phone: CHEMTREC 800-424-9300 or
+1 (703) 527-3887
E-mail: support@rawmaterialsuppliers.com

2. Hazards Identification

GHS Classification: Skin Irritation/Corrosion Category 2
Serious Eye Damage/Eye Irritation Category 2A
Specific Target Organ Toxicity-Single Exposure Category 3

Label Elements: Warning

Hazard Phrases
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Phrases
P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.
P264 Wash hands and contacted skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice.
P337+P313 If eye irritation persists: Get medical advice.
P362+364 Take off contaminated clothing and wash before reuse.
P403+233 Store in a well-ventilated place. Keep container tightly closed.
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 #	%
Dimethyl, methylhydrogensiloxane copolymers, trimethylsilyl endblocked	68037-59-2	60
Ingredients are not classified as health and/or environmental hazards, and/or are present below cut-off/concentration limits.		

4. First-Aid Measures

Eye Contact: Immediately flush with COOL water for 15 minutes. Call a physician if irritation persists.
Skin Contact: Remove contaminated clothing immediately and dispose of safely. When in contact with the skin, clean with soap and water.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration.
Ingestion: Seek medical attention; Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.
Most Important Symptoms/Effects: None.
Indication of Immediate Medical Attention/Special Treatment: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. Fire-Fighting Measures

Extinguishing Media: Foam, carbon dioxide, dry chemical.

Specific Hazards: Fire will form hazardous combustion gases of Carbon dioxide (CO_2) and Carbon monoxide (CO).

Product contains silicone, which is known to produce formaldehyde when temperatures reach in excess of 150°C. Formaldehyde is a known skin, eye and throat irritant as well as a potential cancer hazard. Product will evolve hydrogen gas (extremely flammable) when in contact with alkalis.

Special Protective Equipment and Precautions for Fire-Fighters: Wear respirator and all protective coverings.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Safety glasses and gloves are suggested to prevent eye and skin contact. Provide sufficient ventilation. Be aware of vapors possibly accumulating to form explosive concentrations.
Methods and Materials for Containment and Cleanup: Prevent product from entering drains.
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place container for disposal. Dispose of in accordance with appropriate laws and regulations.

7. Handling and Storage

Safe Handling: Wear protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Safe Storage: Keep container tightly closed. Store in a cool, dry place. Keep away from oxidizing material.

8. Exposure Controls/Personal Protection

Exposure Limits: No OSHA or ACGIH exposure limits apply.
Engineering Controls: Handle in accordance with good hygiene and safety practice.
Personal Protective Equipment: Protective gloves. Wear safety glasses or goggles. Face shield if situation requires.
Other Protective Measures: Protective clothing if situation requires.

9. Physical and Chemical Properties

Appearance: Liquid
Odor: Slight odor
Odor Threshold: No data available
pH: Not applicable
Melting Point: No data available
Boiling Point: No data available
Flash Point: >205°F (Setaflash)
Evaporation Rate: No data available
Flammable Limits: No data available
Vapor Pressure: <0.1mbar @68°F
Vapor Density: All vapors are denser than air
Relative Density: 1.0 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

10. Stability and Reactivity

Reactivity: Product is designed to react with a vinyl-containing base in the presence of a platinum catalyst.
Chemical Stability: Stable in the absence of contamination.
Possibility of Hazardous Reactions: None
Conditions to Avoid: Avoid contact with strong acid, strong base, Tin/Tin Oxides, and moisture.
Incompatible Materials: Acids, alkalis, oxidizing agents.
Hazardous Decomposition Products: Hazardous combustion gases of Carbon dioxide (CO_2), Carbon monoxide (CO) and SiO_2. Contact with acids or bases releases flammable hydrogen gas.

Product contains silicone, which is known to produce formaldehyde when temperatures reach in excess of 150°C. Formaldehyde is a known skin, eye and throat irritant as well as a potential cancer hazard.

11. Toxicological Information

Eye Contact: Not available.
Skin Contact: Not available.
Inhalation: Not available.
Ingestion: Not available.
Chronic Health Effects: Not available.
Acute Toxicity Values: Oral rat LD_{50} 9765 mg/kg (calculated from known toxicities)
Germ Cell Mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive Toxicity: Not available.
Specific Target Organ Toxicity: Not available.

12. Ecological Information

Ecotoxicity: Do not allow to enter soil, waterways or waste water canal. It is not allowed to be released into biological sewage treatment plants.

Ecological data is not available.

Persistence and Degradability: Not available.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available.

13. Disposal Considerations

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe federal, state and local regulations when disposing of substance.

14. Transport Information

Not regulated for transport in any mode.

Emergency Shipping Information: Call CHEMTREC, 800-424-9300 or +1-703-527-3887

15. Regulatory Information

U.S. FEDERAL REGULATIONS:
CERCLA 103 Reportable Quantity (RQ): None

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

Toxic Substances Control Act (TSCA) Inventory Status: These materials or all of their contents are listed on the Toxic Substances Control Act (TSCA).

Canadian DSL/NDSL Inventory: The components of this product are listed on the DSL/NDSL inventories.

Australian Inventory of Chemical Substances (AICS) Status: The components of this product are listed on the AICS inventory.

Korean Inventory: The components of this product are listed or exempted.

STATE REGULATIONS:
California Proposition 65: Neither this product nor its ingredients are listed.

16. Other Information

Because this product is a mixture, the majority of data used was transferred from the safety data sheets of the product's hazardous ingredients, whose manufacturer identity we wish to remain anonymous for competitive reasons.

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

SDS Revision Notes: New edition: June 18, 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.

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SAFETY DATA SHEET

1. Identification

Product Identifier: **Print-On® White Silicone Ink Base**
Product Code(s): RMS5785B
Use: Silicone ink. For Industrial/Professional use only.
Manufacturer: Raw Material Suppliers
872 Towne Center Drive, Pomona, CA 91767
Phone Number: +1-909-621-5871 (8 a.m. to 4p.m. PST)
Emergency Phone: CHEMTREC 800-424-9300 or
+1 (703) 527-3887
E-mail: support@rawmaterialsuppliers.com

2. Hazards Identification

GHS Classification: Aspiration Hazard Category 1

Label Elements: Danger

Hazard Phrases
H304 May be fatal if swallowed and enters airways.

Precautionary Phrases
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
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	10-20
*Titanium Dioxide	13463-67-7	5-15
*This product in the physical state as sold (liquid paste) should not present a dust hazard, which is the hazardous form of these chemicals, under normal conditions.		

4. First-Aid Measures

Eye Contact: Immediately flush with COOL water for 15 minutes. Call a physician if irritation persists.
Skin Contact: Remove contaminated clothing immediately and dispose of safely. When in contact with the skin, clean with soap and water. Get medical attention if irritation develops or persists.
Inhalation: Remove to fresh air. Call a physician if symptoms develop or persist.
Ingestion: Call a physician or poison control center immediately. 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: None.
Indication of Immediate Medical Attention/Special Treatment: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. Fire-Fighting Measures

Extinguishing Media: Foam, carbon dioxide, dry chemical.
Specific Hazards: Fire will form hazardous combustion gases of Carbon dioxide (CO_2) and Carbon monoxide (CO), SiO_2, and oxides of nitrogen (NO_x).
Product contains silicone, which is known to produce formaldehyde when temperatures reach in excess of 150°C. Formaldehyde is a known skin, eye and throat irritant as well as a potential cancer hazard. Product will evolve hydrogen gas (extremely flammable) when in contact with alkalis.
Special Protective Equipment and Precautions for Fire-Fighters: Wear respirator and all protective coverings.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Safety glasses and gloves are suggested to prevent eye and skin contact. Provide sufficient ventilation.
Methods and Materials for Containment and Cleanup: Prevent product from entering drains.
Scrape up and dispose of in accordance with appropriate laws and regulations.

7. Handling and Storage

Safe Handling: Wear protective equipment. Avoid contact with skin and eyes.
Safe Storage: Keep container tightly closed. Store in a cool, dry place. Keep away from oxidizing material. Store locked up.

8. Exposure Controls/Personal Protection

Exposure Limits: For Decamethylcyclopentasiloxane (CAS 541-02-6):
NIOSH REL 0.01 mg/m^3
For Titanium Dioxide (CAS 13463-67-7):
OSHA PEL: 15 mg/m^3
ACGIH TLV: 10 mg/m^3
Engineering Controls: None
Personal Protective Equipment: Protective gloves. Wear safety glasses or goggles. Face shield if situation requires.
Other Protective Measures: Protective clothing if situation requires.

9. Physical and Chemical Properties

Appearance: Paste
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: 1.4 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

10. Stability and Reactivity

Reactivity: Product is designed to react with a catalyst to initiate vulcanization.
Chemical Stability: Stable in the absence of contamination.
Possibility of Hazardous Reactions: None

Conditions to Avoid: Avoid contact with strong acid, alkalis, and oxidizing agents.

Incompatible Materials: Acids, alkalis, oxidizing agents.

Hazardous Decomposition Products: Hazardous combustion gases of Carbon dioxide (CO_2), Carbon monoxide (CO) and SiO_2 and oxides of nitrogen (NO_X).

Product contains silicone, which is known to produce formaldehyde when temperatures reach in excess of 150°C. Formaldehyde is a known skin, eye and throat irritant as well as a potential cancer hazard.

11. Toxicological Information

Eye Contact: Not available.

Skin Contact: Not available.

Inhalation: Not available.

Ingestion: Not available.

Chronic Health Effects: Not available.

Acute Toxicity Values: Oral rat LD_{50} 24134 mg/kg (calculated from known toxicities)

Germ Cell Mutagenicity: Not available.

Carcinogenicity: Titanium dioxide is listed by IARC under its 2B classification. It is also listed by the ACGIH under its A4 classification. However, these two classifications are associated with titanium dioxide in its dust form. As mentioned in Section 3, titanium dioxide in its current form should produce no dust hazard.

Reproductive Toxicity: Not available.

Specific Target Organ Toxicity: Not available.

Aspiration Hazard: Decamethylcyclopentasiloxane is listed as an Aspiration Hazard-Category 1. May be fatal if swallowed and enters airways.

12. Ecological Information

Ecotoxicity: Do not allow to enter soil, waterways or waste water canal. It is not allowed to be released into biological sewage treatment plants.

Ecological data is not available.

Persistence and Degradability: Not available.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available.

13. Disposal Considerations

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe federal, state and local regulations when disposing of substance.

14. Transport Information

Not regulated for transport in any mode.

Emergency Shipping Information: Call CHEMTREC, 800-424-9300 or +1-703-527-3887

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity (RQ): None

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

Toxic Substances Control Act (TSCA) Inventory Status: These materials or all of their contents are listed on the Toxic Substances Control Act (TSCA).

Canadian DSL/NDSL Inventory: The components of this product are listed on the DSL/NDSL inventories.

Australian Inventory of Chemical Substances (AICS) Status: The components of this product are listed on the AICS inventory.

Korean Inventory: The components of this product are listed or exempted.

STATE REGULATIONS:

California Proposition 65: Titanium dioxide is listed as a Carcinogenic Prop 65 chemical when airborne and unbound particles of respirable size. This definition does not fit this product and therefore can be considered a product that is not known to contain substances known to the State of California to cause cancer and/or reproductive harm.

16. Other Information

Because this product is a mixture, the majority of data used was transferred from the safety data sheets of the product's hazardous ingredients, whose manufacturer identity we wish to remain anonymous for competitive reasons.

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

SDS Revision Notes: New edition: June 21, 2018