

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Ceramic Resin	Manufacturer's Name Ackuretta Technologies Pvt. Ltd.		
Material Name: Ceramic Resin	Street Address 4F-B No. 322 Section 1 Neihu Road, Neihu District		
General Use UV curable clay	Postal Code 11493		
City Taipei, Taiwan	Date March 1, 2017	Hours of Operation 10-6, M-F	
Emergency Telephone +886 2 7737 8330			

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	Exposure limits
Crystalline Silica	10-30%	Not Applicable	See section 8
Alkox. Pentaerythritol tetracrylate	<10-30%	175305	See section 8
2-butylamino carbonyl oxy ethyl acrylate	10-30%	63225-53-6	See section 8
di-trimethylolpropane tetraacrylate	10-30%	94108-97-1	See section 8
Dibutyltin dilaurate (DBTL)	<1%	77-58-7	See section 8
Quartz	<1%	14808-60-7	0.1 Mg/m ³
Diphenyl 2,4,6-trimethylbenzoyl phosphine oxide	<1%	75980-60-8	See section 8

SECTION 3 — HAZARDS IDENTIFICATION

Eyes: Causes serious irritation. Category 2A, H319
Skin and Respiratory: Category 2A, H319, H335. Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.
Ingestion: toxic. Prolonged or repeated exposure may cause headache, drowsiness, nausea, weakness. May damage fertility or the unborn child

Toxic to aquatic life.

Carcinogenicity: Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC Group 1, NTP)

SECTION 4 — FIRST AID MEASURES

Skin Contact: Wash thoroughly with soap and water.
Eye Contact: Immediately flush eyes with plenty of clean water for at least 15 minutes. If irritation persists obtain medical attention.
Inhalation: Move to fresh air. Contact a physician if irritation persists or later develops.
Ingestion: Drink water. Do not induce vomiting. Seek medical advice/attention.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable flammable	If yes, under which conditions? If exposed to flames
Hazardous Combustion Products	Extinguish with water spray, carbon dioxide, foam, dry chemical
[NFPA] Fire fighters and others exposed wear self-contained breathing apparatus. Wear full firefighting protective clothing.	

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Cleanup personnel should use appropriate NIOSH/MSHA approved respirators if exposures are expected above the limits listed in Section 8. Cover spills with an absorbent material, sweep up and place in a waste disposal container. Flush spill area with water. Ventilate the area. This product is toxic to aquatic systems and may cause high turbidity in storm water.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment
Ensure good ventilation. Appropriate personal protection should be used when handling.
Storage Requirements
Best if kept in dry conditions. Protect from heat and direct sunlight. Keep containers closed.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Specific Engineering Controls (such as ventilation, enclosed process) Respiratory: Keep work area well ventilated, especially in confined spaces. Wearing a mask and/or respirator with HEPA filter is recommended. If firing 3D printed Porcelite objects in a kiln, assure that kiln is well ventilated.
Personal Protective Equipment: Gloves, dust suit, mask, respirator
Eye Protection: Wear OSHA Standard goggles or face shield.
Hand Protection: Wear impermeable gloves (nitrile rubber).
Keep away from foodstuffs, beverages and feed.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odour: Acrylic-like	Appearance Opaque colorless
Specific Gravity 2.2 – 2.6	Vapour Density (air = 1) No data available	
Flashpoint >201 F, estimated	Boiling Point (° C) No data available	Freezing Point (° C) N/A
pH in water 4.0 – 6.3	Melting Point >1700 C	[Solubility in Water] Negligible

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Incompatibility with Other Substances:	Avoid strong oxidizing agents, strong reducing agents, free radical generators, inert gas, oxygen scavenger, peroxides.
Hazardous Decomposition Products: Thermal decomposition giving flammable and toxic products: carbon oxides, acrylates, hazardous organic compounds.	

SECTION 11 — TOXICOLOGICAL INFORMATION

This product contains crystalline silica (Cristobalite, Tridymite and quartz).

Target Organs: Respiratory (repeated exposure)

Long Term Toxicity: Repeated and prolonged inhalations may cause lung disease (silicosis). Repeated oral administration of DBTL has caused liver damage and death in animals. It may impair fertility and harm unborn children.

Short Term Toxicity: Repeated and prolonged inhalations may cause lung disease (silicosis).

Contact with skin may cause a cross-allergic reaction in persons already sensitized to acrylates.

SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity] Toxic to aquatic life. This product does not meet the criteria for PBT (persistent, bioaccumulative and Toxic)

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

Consult local Authority. Do not run off into local waterways/sewers or ground. Do not incinerate.

SECTION 14 — TRANSPORT INFORMATION

DOT Hazard Classification: 9; Packing Group: III; UN Number: UN3082

Marine pollutant

This material is not regulated for transport by the IATA.

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SECTION 15 — REGULATORY INFORMATION

U.S. Federal Regulations

OSHA: This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

SARA Section 313: This product classified as hazardous category: **Irritant** to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA: This product or its components are listed in or exempt from the TSCA inventory requirements. This product contains no substances subject to export notification under Section 12(b) of TSCA.

State Regulations

Several states specifically list kaolin and regulate dust exposure. For the most current regulatory information please contact the appropriate agencies in the state where the product is to be handled.

Foreign Regulations

Clay can be found in the following registries: DSL (Canada), ENCS (Japan), ECL (Korea), AICS (Australia), SWISS (Swiss).

R phrases: R36/37, R66 S phrases: S24/25, S37/39, S38

SECTION 16 — OTHER INFORMATION

Health: 1 (under emergency conditions, can cause significant irritation)

Flammability: 1 (must be preheated before ignition can occur)

Reactivity: 1 (normally stable, but can become unstable at elevated temperatures and pressures)

Personal Protective Equipment = Use NIOSH approved personal protective equipment.