KRETUS®

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: KRETUS® Anti-Slip Tex 50 or AO 24, 36, 60, 80, 120, or 220
Recommended Use: For residential and industrial use
Manufacturer: Kretus, 1055 W. Struck Ave., Orange, CA 92867
Telephone: (714) 694-2061
24 Hour Emergency Telephone Number: (800) 255-3924 (CHEMTEL)

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

Comments: To the best of our knowledge, this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/EEC and Canadian Hazardous Product Act.

SECTION 2: HAZARD IDENTIFICATION

Carcinogenicity: Category 2
Warning
Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer.

Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. IF exposed or concerned: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification: Organic Powder and Titanium Dioxide
OSHA 29CFR 1910.1200: Combustible dust
REGULATION (EC) No 1272/2008: Not a hazardous substance or mixture

OSHA 29CFR1910.1200
WARNING – May form combustible dust concentrations in the air

REGULATION (EC) No 1272/2008: Not a hazardous substance or mixture
These products are micronized powders. Static charges on the powders may ignite flammable atmospheres. High levels of product dust in the atmosphere may present a dust explosion hazard.

Other useful guides to handling organic powders include:
NFPA 77 Recommended Practice on Static Electricity
NFPA 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids
NFPA 499 Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
OSHA 3371-08 Hazard Communication Guidance for Combustible Dusts
DUST HAZARD - Notification given pursuant to Table 1.5.2 of the 3rd Revision of GHS (2009).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Chemical Name	CAS No.	Concentration (% by Weight)
Polypropylene homopolymer	9003-07-0	5-100
Aluminum Oxide	1344-38-1	5-100
Titanium Dioxide	236-675-5	< 5

SECTION 4: FIRST-AID MEASURES

Inhalation: Treat as a nuisance dust. Remove victim to fresh air and provide oxygen if breathing is difficult. Immediate medical attention not normally required. No delayed effects expected.
Skin: If burned by hot wax, quench immediately with cold tap water. Dry burn area and loosely cover to protect against infection. Do not apply ointment or salves. IMMEDIATE MEDICAL ATTENTION IS NECESSARY.
Eye: Flush with copious amounts of water for at least 15 minutes. IMMEDIATE MEDICAL ATTENTION IS NECESSARY.
Ingestion: If large quantities are ingested – IMMEDIATE MEDICAL ATTENTION IS NECESSARY. Do not give anything to an unconscious person.
Acute: None known.
Delayed and Chronic Effects: None known. Not listed by NTP, IARC, or OSHA as a carcinogen.

SECTION 5: FIRE-FIGHTING MEASURES

OSHA FLAMMABILITY CLASS: Combustible solid.

Suitable Extinguishing Media
Carbon Dioxide, dry chemical or fine water spray. Avoid water stream on molten burning material as it may scatter and spread the fire.

Special Protective Equipment for Fire-Fighting
Wear self-contained breathing apparatus and protective clothing approved by NIOSH. Watch footing on floors and stairs because of possible melting and spreading of material. Use spray to keep containers cool.

Special Risks—Unusual Fire and Explosion Hazards
Flash point >530°F (277°C). Melts in proximity to fires, causing slippery floors and stairs. When powder is suspended in air, these products could be FLAMMABLE/EXPLOSIVE.

In these circumstances, keep away from heat, sparks and open flames. Static charges on powders or powders in liquids may ignite flammable atmospheres. See Section 7 "HANDLING AND STORAGE" for suggestions on how to use these products under such conditions.
Also refer to NFPA Bulletin 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries", for safe handling procedures.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures
Wear rubber boots with slip-resistant soles, and NIOSH-approved dust respirator where dust occurs. See section 8.

Environmental Precautions
Sinks in water. No known hazard to aquatic life.

Methods and Materials for Containment and Clean-up
Collect with HEPPA Filter Dust Collector. Ensure adequate ventilation. Do not walk through spilled material. Avoid Static charge at high levels.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe-Handling
Avoid contact with skin, eyes, and clothing. Wash hands before eating or drinking. Avoid accumulation of dust. Use only in well-ventilated areas.

Conditions for Safe Storage
Store in the original container in a cool, dry well-ventilated area. Keep containers tightly sealed.
Storage temperature: Ambient.
Storage life: N/A
Incompatible materials: Dissolves in hydrofluoric acid.

Extra Information
- Avoid projections and probes that could lead to discharge between the charged polymer and probe.
- Never pour micronized polymers or waxes from a drum or large container directly into hot flammable solvents.
- Add micronized polymers or waxes slowly and in small quantities to hot flammable solvents.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Chemical name	Control and Value
Polypropylene homopolymer	LTEL TWA PEL 10-15 mg/m3 (total dust) 3-5 mg/m3 (respirable)
Aluminum Oxide	
Titanium Dioxide	

ENGINEERING CONTROLS: Use adequate ventilation during heating processes or if dusty conditions prevail when handling powdered materials. For storage and ordinary handling, general ventilation is adequate.
RESPIRATORY PROTECTION: Use a NIOSH approved dust respirator with powdered wax. During melting or conveying in molten state, use organic vapor respirator.
VENTILATION: Face velocity greater than 60 cfm (adequate to capture wax dust or fumes).
SKIN PROTECTION: Use heat resistant, impervious gloves to avoid repeated/prolonged skin contact with molten material and powder. Other protective garments as necessary.
EYE PROTECTION: Chemical goggles around molten material and in dusty conditions.

OTHER PROTECTIVE EQUIPMENT OR CLOTHING: As needed to prevent repeated/prolonged contact.
WORK / HYGIENIC PRACTICES: Wash skin thoroughly with soap and warm water after handling and before smoking, eating or applying makeup. If clothes become contaminated, change to clean clothing. Do not wear contaminated clothing until properly laundered. Further information relating to the safe handling and use of fluorocarbon polymers may be found in DWE (NIOSH), Publication No. 77-193.
EXPOSURE GUIDELINES: Powdered forms may generate nuisance particulates upon handling.
ACGIH TLV = 10mg/m3. OSHA PEL 5mg/m3.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid, white powder
Odor	No Information Available
Odor Threshold	No Information Available
pH	8
Melting/Freezing Point	330°C
Initial Boiling Point and Boiling Range	No Information Available
Flash Point	>530°F
Evaporation Rate	No Information Available
Flammability	No Information Available
Upper/Lower Flammability or Explosive Limits	No Information Available
Auto Ignition Temperature	No Information Available
Vapor Pressure	nil
Vapor Density	Heavier than Air
Relative Density/Specific Gravity	Heavier than Water
Solubility(ies)	nil
Partition Coefficient: n-octanol/water	No Information Available
Decomposition Temperature	No Information Available
Viscosity	No Information Available
VOC (Volatile Organic Compounds)	0

SECTION 10: STABILITY AND REACTIVITY

Reactivity
None under normal conditions.

Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Condition(s) to Avoid
Extreme heat, sparks, and open flame.

Substance(s) to Avoid
Premixing over 24 hours prior to application. Strong oxidizing agents and amines.

Hazardous Decomposition Product(s)
These products may emit oxides of carbon and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

Treat as nuisance dust.
Inhalation: Inhalation of the dust may cause breathlessness, coughing, tightness of the chest and difficulty in breathing.
Eye Contact: Slightly irritating to the eye. Avoid getting product airborne.
Skin Contact: Slightly irritating to the skin.
Ingestion: No data.
Irritation: Causes eye irritation. May cause respiratory irritation. May cause transient irritation.
Corrosivity: No data.
Sensitization: No data.
Repeated Dose Toxicity: None known.
Mutagenicity: No data.
Toxicity for Reproduction: No data.

SECTION 12: ECOLOGICAL INFORMATION

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.
WASTE DISPOSAL METHOD: Assume conformity with applicable disposal regulations. Preferred method of disposal is in closed containers of enough strength to eliminate leakage at approved incineration or chemical landfill waste disposal site in accordance with local regulations. Sewage disposal is discouraged.
Toxicity: No known reports of ecotoxicity to the environment.
Persistence and Degradability: Persistent but inert in aquatic systems.
Bioaccumulative Potential: The product will not bioaccumulate up the food chain.
RCRA: Is the unused product a RCRA hazardous waste if discarded? No.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposed material is not a hazardous waste. Disposal should be in accordance with local, state or national legislation. Containers must not be punctured or destroyed by burning, even when empty.

SECTION 14: TRANSPORT INFORMATION

	UN NUMBER	UN PROPER SHIPPING NAME	TRANSPORT HAZARD CLASSES	PACKING GROUP	ENVIRONMENTAL HAZARDS
DOT	**Not Regulated**	**Not Regulated**	**Not Regulated**	**Not Regulated**	**Not Regulated**
IMO/IMDG	**Not Regulated**	**Not Regulated**	**Not Regulated**	**Not Regulated**	**Not Regulated**
IATA/CAO	**Not Regulated**	**Not Regulated**	**Not Regulated**	**Not Regulated**	**Not Regulated**

The transportation information listed above is suitable for all modes of transportation. TDG, IMO/IMDG, ICAO/IATA, 49 CFR

SECTION 15: REGULATORY INFORMATION

United States
TSCA (Toxic Substance Control Act): This product or its components are listed on the TSCA Inventory. This product or its components do not contain any chemicals subject to any rules or orders under TSCA sections 4, 5, 6, 7, or 8(d).
SARA 311/312—Hazard Categories: Immediate/Acute Health (irritant): YES
SARA 302—Extremely Hazardous Substances: Not hazardous
SARA 313—Toxic Chemicals: Not toxic
CERCLA (Comprehensive Environmental Response Compensation and Liability Act): Not established
CAA (Clean Air Act 1990): No data
CWA (Clean Water Act): No data
California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) - This product does contain chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.
Chemicals known to cause cancer: 13463-67-7 Titanium Dioxide

Canada
Canadian Domestic Substances List (DSL): All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.
Canadian Ingredient Disclosure list (limit 1%): 1344-28-1 Aluminum Oxide This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
Substances of very high concern (SVHC) according to REACH, Article 57: None of the ingredients are listed
15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

HMIS	**HMIS**
Health	1
Flammability	1
Reactivity	0

Personal Protection: Safety goggles, neoprene rubber gloves, N95 respirator
Additional Information: The accumulation of airborne dust particles may lead to health and safety risks in some cases. The use of good industrial practices will mitigate this risk.
The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Sections 2,4,6,7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.
In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal but may also occur with mineral products. While the majority of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from.

Prepared by Kretus Inc
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Revision Note Reformatting

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.