KRETUS®

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: **KRETUS® POLY JOINT FILLER PART A**

Recommended Use: For professional use only.

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.

SECTION 2: HAZARD IDENTIFICATION

This product is not classified as a hazardous substance according to the GHS (Globally Harmonized System).
Other hazards There are no other hazards not otherwise classified that have been identified.

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)
1333-86-4	carbon black	≤1%
13463-67-7	titanium dioxide (dispersed in liquid)	<10%
5285-60-9 4	4'-methylenebis[N-sec-butylaniline]; acute Tox. 4, H302	<5%;
7631-86-9	precipitated silica (silica - amorphous)	<5%
872-50-4	N-methyl-2-pyrrolidone; acute Tox. 3, H331; Repr. 1B, H360; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Flam. Liq. 4, H227	≤1%

Additional information: For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.Non-classification as a carcinogen is based on non-respirable form of product.

SECTION 4: FIRST-AID MEASURES

Contact with Eyes
Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Contact with Skin
Immediately wash with water and soap and rinse thoroughly. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation
Respiration of particulates is unlikely during normal usage. Supply fresh air; consult doctor in case of complaints.

Ingestion
Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

Most Important Symptoms and Effects, Both Acute and Delayed
Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Slight irritant effect on skin and mucous membranes. Slight irritant effect on eyes.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam; water spray; fire-extinguishing powder; carbon dioxide; gaseous extinguishing agents

NOT Suitable
Water stream.

Special Risks/Hazards Arising from the Substance or Mixture
Formation of toxic gases is possible during heating or in case of fire.

Special Protective Equipment for Fire-Fighting
Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information
Use large quantities of foam as it is partially destroyed by the product. Cool endangered product with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures
Use personal protective equipment as required. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

Environmental Precautions
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and Materials for Containment and Clean-up
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe-Handling
Prevent formation of aerosols. Use only in well ventilated areas. Avoid splashes or spray in enclosed areas. Keep out of reach of children.

Information about protection against explosions and fires: No special measures required.

Conditions for Safe Storage
Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Keep containers tightly sealed.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

13463-67-7 (titanium dioxide)	PEL (USA)	Long-term value: 15* mg/m3
	REL (USA)	See Pocket Guide App. A
	TLV (USA)	Long-term value: 10 mg/m3; withdrawn from NIC
	EL (Canada)	Long-term value: 10* 3** mg/m3; IARC 2B
	EV (Canada)	Long-term value*: 10 mg/m3
	LMPE (Mexico)	Long-term value: 10 mg/m3; A4
*total dust **respirable fraction		
7631-86-9 (precipitated silica, silica - amorphous)	NIOSH REL (USA)	Long-term value: 6 mg/m3
	OSHA PEL (USA)	Long-term value: 80 mg/m3
872-50-4 (N-methyl-2-pyrrolidone)	WEEL (USA)	Long-term value: 10 ppm, Skin
	EV (Canada)	Long-term value: 400 mg/m3
1333-86-4 (carbon black)	PEL (USA)	Long-term value: 3.5 mg/m3
	REL (USA)	Long-term value: 3.5* mg/m3; See Pocket Guide Apps. A+C
	TLV (USA)	Long-term value: 3** mg/m3
	EL (Canada)	Long-term value: 3 mg/m3; IARC 2B
	EV (Canada)	Long-term value: 3.5 mg/m3
	LMPE (Mexico)	Long-term value: 3** mg/m3; A3
*0.1 in presence of PAHs **inhalable fraction		

Ingredients with biological limit values

872-50-4 (N-methyl-2-pyrrolidone)2.39	BEI (USA)	100 mg/L Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

Exposure controls

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Engineering controls: No relevant information available.

Breathing equipment: Not required under normal conditions of use.

Protection of hands: Protective gloves; The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: Safety glasses; Follow relevant national guidelines concerning the use of protective eyewear.

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment: No relevant information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid, COLOR ACCORDING TO SPECIFICATION
Odor	Slight
Odor Threshold	no data available
pH	10-12
Melting/Freezing Point	no data available
Initial Boiling Point and Boiling Range	>200°C
Flash Point	>190°C
Evaporation Rate	no data available
Flammability	NOT APPLICABLE
Upper/Lower Flammability or Explosive Limits	Product does not present an explosion hazard
Auto-ignition Temperature	no data available
Vapor Pressure	<1.3 hPa (<1 mm Hg)
Vapor Density	no data available
Density	1.02 - 1.05 g/cm3 (8.512 - 8.762 lbs/gal)
Relative Density/Specific Gravity	no data available
Solubility(ies)	FULLY MISCIBLE
Partition Coefficient: n-octanol/water	no data available
Decomposition Temperature	no data available
Viscosity	no data available
VOC (Volatile Organic Compounds)	<50 g/L

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Incompatible materials: Strong acids. Oxidizers

Conditions to be avoided: Excessive heat.

Reactivity: No relevant information available.

Thermal decomposition: No decomposition if used and stored according to specifications.

Possibility of hazardous reactions: Reacts with strong acids and oxidizing agents. Reacts with diisocyanate resins. Toxic

fumes may be released if heated above the decomposition point.

Hazardous decomposition product: under fire conditions only—Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

LD/LC50 values that are relevant for classification:
872-50-4 N-methyl-2-pyrrolidone:

- Oral LD50 4150 mg/kg (rat)
- Dermal LD50 >5000 mg/kg (rat)
- Inhalative LC50/4h >5.1 mg/l (rat)

Primary irritant effect:

- On the skin: Based on available data, the classification criteria are not met.
- On the eye: Based on available data, the classification criteria are not met.
- Sensitization: Sensitization possible through skin contact.

IARC (International Agency for Research on Cancer): 13463-67-7 titanium dioxide: 2B, 1333-86-4 carbon black: 2B

NTP (National Toxicology Program): None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

Probable route(s) of exposure: Ingestion. Eye contact. Skin contact.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met. Contains known or suspect carcinogens when inhaled. Product is in non-inhalable form and is non-classifiable as a carcinogen.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity No relevant information available.

Persistence and degradability No relevant information available.

Bioaccumulative potential: No relevant information available.

Mobility in soil: No relevant information available.

General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB Assessment: PBT: Not applicable. vPvB: Not applicable.

Other adverse effects: No relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste should be disposed of according to local, state, and federal regulations. Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice or pass to a chemical disposal company. Dispose of containers with care.

SECTION 14: TRANSPORT INFORMATION

	UN Number	UN Proper Shipping Name	Transport Hazard Class(es)	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

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)

SARA
Section 302 (extremely hazardous substances): None of the ingredients are listed.
Section 355 (extremely hazardous substances): None of the ingredients are listed.
Section 313 (Specific toxic chemical listings): 872-50-4 N-methyl-2-pyrrolidone
TSCA (Toxic Substances Control Act) All ingredients are listed.

Proposition 65 (California) Chemicals known to cause cancer: Reference to chemical component(s) listed below are based on unbound respirable particles and are not generally applicable to product as supplied: 13463-67-7 titanium dioxide; 1333-86-4 carbon black.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: 872-50-4 N-methyl-2-pyrrolidone

Carcinogenic categories
EPA (Environmental Protection Agency): None of the ingredients are listed.
IARC (International Agency for Research on Cancer): 13463-67-7 titanium dioxide 2B; 1333-86-4 carbon black 2B
NIOSH-Ca (National Institute for Occupational Safety and Health): 13463-67-7 titanium dioxide; 1333-86-4 carbon black
Canadian Domestic Substances List (DSL): All ingredients are listed.
IARC (International Agency for Research on Cancer): None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed.
Canadian Domestic Substances List (DSL): All ingredients are listed.

SECTION 16: OTHER INFORMATION

Personal Protection: Safety goggles, neoprene rubber gloves, vapor respirator

Prepared by Kretus, Inc.
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Disclaimer: The information and recommendations presented herein are accurate to the best of our knowledge. User

must conduct their own tests to determine the suitability of these products for their particular purposes and usage. Because of numerous factors affecting results, KRETUS® and its affiliation makes no warranty of any kind, express or implied, including those of merchantability and fitness for purpose, other than material conforms to our applicable current specifications. KRETUS® assumes no legal responsibility for use or reliance on the information contained in this safety data sheet.