



KRETUS®

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: KRETUS® Urethane Polymer Concrete, Part A (RC/TT, SL/MF, WC/VC)

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

Emergency Overview: Caution! The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: No data found.

Hazard classification:

NON-HAZARDOUS; NON-DANGEROUS GOODS

Non dangerous goods for transport according to the ADG code.

Non-Hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulations 2001 and NOHSC

Classification of the product

Eye Irritant 2B H320 (Eye Irritation) Causes eye irritation Label elements

Signal Word: Warning!



Hazard Statement:

H320 Causes eye irritation

Precautionary Statements:

P264 Wash exposed areas thoroughly after handling

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Potential Acute Health Effects: Repeated exposure may results in slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

General Information: This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Storage: Keep container tightly closed and locked in a cool, well-ventilated place.

Disposal: Dispose of contents/container to an approved waste disposal plant in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Read the entire SDS for a more thorough evaluation of the hazards.

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)
Polyalcohol Emulsion	Non-Hazardous	80%
Pigments	N/A	1-5%
Aromatic Sulfonic Acid	70775-94-9	15-20%
Alcohol Ethoxylated	68439-46-3	<1%

SECTION 4: FIRST-AID MEASURES

General advice: Seek medical advice or medical attention if condition persists.

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Rinse mouth. Drink plenty of water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Fire Extinguishing Media: Dry chemical. Water spray. Water fog. Foam.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Specific hazards: Not available

Precautions for fire fighters: Appropriate breathing apparatus may be required. Cool endangered containers with water in case of fire. Do not allow quenching water into sewers or waterways. Wear pressure-demand self-contained breathing apparatus (MSHA/NIOSH-approved or equivalent) and full protective gear.

Flammable Limits: Not available.

Explosion Limits: Not Available

Auto-Ignition Temperature: 449°C (840.2°F)

Flash Points: >100°C

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform authorities if the product has caused environmental pollution (sewers, drains, waterways or soil).

Methods for Cleaning up: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Put on appropriate personal protective equipment, PPE (see Section 8). Eating and drinking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated PPE or clothing, wash hands and face before eating and drinking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Use only in area provided with appropriate exhaust ventilation. Empty containers retain product residue and can be hazardous. Do not get in eyes, skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment.

Storage: Store between 4 to 30°C (40 to 86°F) in accordance with local regulations away from sources of heat, ignition, and direct sunlight. Store in original container. Keep in a dry, well-ventilated area, and away from incompatible materials (see section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Special Note for Exposure Control: Consult local authorities for acceptable exposure limits.

OSHA PEL (TWA): Not Determined

ACGIH TLV (TWA): Not Determined

NIOSH REL (TWA): Not Determined

Engineering measures: Work in well-ventilated area. Provide natural or explosion-proof fan to ensure adequate ventilation, especially in confined area. Avoid contact with skin, eyes, and clothing.

Environmental exposure controls: Construct a dike to prevent spreading. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating and drinking, smoking or using the lavatory and at the end of the working period. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection:

Respiratory - In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eyes – Splash proof safety glasses.

Skin - Rubber or plastic apron. Rubber or plastic gloves. Long sleeved clothing or wear protective sleeves. Remove and wash contaminated clothing before re-use.

Other protective equipment information - Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Neoprene gloves. PVC disposable gloves. Nitrile rubber. Butyl-rubber. Impervious gloves. (The breakthrough time of the selected glove(s) must be greater than the intended use period.)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid/various colors
Odor	Soap-Like
Odor Threshold	No Data Available
pH	7
Melting/Freezing Point	No Data Available
Initial Boiling Point and Boiling Range	313°C(595.4°F)
Flash Point	>100°C
Evaporation Rate	Not Applicable
Flammability	No Data Available
Upper/Lower Flammability or Explosive Limits	No Data Available
Auto-ignition Temperature	449°C (840.2°F)
Vapor Pressure	Not Applicable
Vapor Density	No Data Available
Relative Density/Specific Gravity	8.55 lb/US gallon
Solubility(ies)	Insoluble
Partition Coefficient: n-octanol/water	No Data Available
Decomposition Temperature	No Data Available
Viscosity	No Data Available

VOC (Volatile Organic Compounds)	NIL				
SECTION 10: STABILITY AND REACTIVITY					
Chemical stability: Stable under normal conditions. Hazardous reactions will not occur.					
Conditions to avoid: Excessive heat.					
Materials to avoid: Not Available					
Hazardous decomposition products: Not Available					
Hazardous polymerization: Under normal conditions hazardous polymerization will not occur.					
SECTION 11: TOXICOLOGICAL INFORMATION					
Routes of Entry: Absorbed through skin. Eye contact. Ingestion.					
Toxicity to Animals: LD50: Not available. LC50: Not available.					
Chronic Effects on Humans: Not available.					
Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.					
After ingestion: TK No hazard expected after contact with small quantities.					
SECTION 12: ECOLOGICAL INFORMATION					
Ecotoxicity: Not available.					
BOD5 and COD: Not available.					
No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.					
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	NONE	Not Regulated- Not Dangerous Goods	NONE	NONE	NONE
IMO/IMDG	NONE	Not Regulated- Not Dangerous Goods	NONE	NONE	NONE
IATA/CAO	NONE	Not Regulated- Not Dangerous Goods	NONE	NONE	NONE
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code.					
SECTION 15: REGULATORY INFORMATION					

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	EINECS	Included on Inventory
CANADA	DSL	Included on Inventory
CHINA	SEPA	Included on Inventory
JAPAN	ENCS	Included on Inventory

OSHA: This product is considered non-hazardous.

CERCLA SARA Hazard Category:

Section 311 AND 312 - This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: None

Section 313 - This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None

U.S. State Regulations:

California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) - This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the SDS contain all the information required by the Controlled Products Regulations.

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS)

Scale 0-4		NFPA	HMIS
4-Severe Hazard	Health	1	1
3-Serious Hazard	Flammability	1	1
2-Moderate Hazard	Reactivity	0	0
1-Slight Hazard			
0-Minimal Hazard			

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.