KRETUS®

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: **KRETUS® ACRYLIC POLYMER CONCRETE ACRYLIC ADMIX**

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: If the solution is swallowed, some stomach discomfort can be expected. Irritation of the mouth, throat, and stomach. Causes eye burns and skin irritation.

DANGER

Hazards and Acute Toxicity: Category 4
Skin Corrosion/Irritation: Category 4
Eye Irritation: Category 2B
Inhalation Hazard: Category 4
Aspiration Hazard: Category 4
Harmful if swallowed. Harmful in contact with skin. Causes eye irritation. Harmful if inhaled. May be harmful if swallowed and enters airways.

Prevention: **A**void breathing dust/fume/gas/mist/vapors/spray

Response: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.

Route of Entry

Inhalation: yes.
Skin: yes.
Ingestion: yes.

Carcinogenicity: NTP: no. IARC: no. OSHA: no.
Reproductive Toxicity: No reproductive toxins over 0.1% in product.
Target Organ Systemic Toxicity (TOST): No data found.

Effects of Exposure
Acute: Eye: Causes eye irritation.
Skin: Causes skin irritation. Prolonged/repeated exposure can cause moderate irritation, de-fatting and dermatitis.
Inhalation: Harmful by inhalation. Concentrated inhalation (huffing) may cause damage to the lungs and central nervous system. Prolonged exposure over TLV may produce pneumoconiosis.

Signs and Symptoms of Overexposure: Causes headache, drowsiness or other effects to the central nervous system. Prolonged exposure over TLV may produce pneumoconiosis. Chronic exposure may cause permanent damage of health.

Medical Conditions Aggravated by Exposure: Any respiratory or skin condition.

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

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.

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)
2,2,4-trimethyl-1,3-pentanediol monoisobutryate	25265-77-4	<5%
1,2-dihydroxypropane	57-55-6	<5%

See Section 11 for Toxicological Information.

SECTION 4: FIRST-AID MEASURES

Contact with Eyes
Flush with clean, lukewarm water for at least 15 minutes, occasionally lifting eyelids. Obtain medical attention.

Contact with Skin
Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse.

Inhalation

Remove to fresh air. Apply artificial respiration/administer oxygen if necessary. Call physician immediately. If person is unconscious, transport affected person in reclined position. Never give an unconscious person anything by mouth.

Ingestion

Keep person warm and quiet. Get immediate medical attention. Do not induce vomiting because of risk of aspiration of material into lungs. Drink several glasses of water to dilute the product in the stomach. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability Summary (OSHA): Not a Flammable liquid.

Flash Point: Waterborne. >240F (116C) Setaflash.

Upper Flammable/Explosive Limit, % in air: Not Determined

Lower Flammable/Explosive Limit, % in air: Not Determined

Unusual Fire/Explosion Hazards: Closed containers may explode when exposed to fire due to pressure buildup. Extinguishing Media: Carbon Dioxide, dry chemical, foam and/or water fog.

Fire Fighting Instructions: Fire fighters should be equipped with self-contained breathing apparatus and turn out gear. Water spray may be used for cooling containers to prevent possible pressure build up and auto ignition/explosion when exposed. Guard against toxic gasses released by fire. If safe, remove container from fire zone.

Products of Combustion: Dried product can be made to burn, releasing Carbon Dioxide, Carbon Monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Methods and Materials for Containment and Clean-up

Avoid contact with eyes. Evacuate the area of all unnecessary personnel. Ventilate area. Equip employees with appropriate protective equipment.

Dike around spilled material. Cover spill with inert/absorbent material and shovel with non-sparking tools into container. Remove containers to safe area and seal. Use sand or absorbent to collect material and to prevent flow into storm water or ground.

Waste material must be disposed of in accordance with federal, state and local environmental regulatory controls.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe-Handling
Keep container closed when not in use. Containers are heavy. Lift properly to avoid back strain.

Drums: Protect against physical damage**.**

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

Precautions: Clean up spills quickly to prevent slipping on the wet surface.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the

respirator manufacturer's literature to ensure that the respirator will provide adequate protection read and follow all respirator manufacturer's instructions.
Ventilation: Local exhaust must be sufficient to keep airborne vapor concentrations below TLV limit.
Eye Protection: Chemical workers' goggles.
Skin Protection: Protective gloves – chemical resistant gloves may be used if desired.

Other Precautions
Protective Equipment: Waterproof aprons. Eye bath and safety shower. To prevent repeated or prolonged skin contact wear impervious clothing and boots. Use hand cream and barrier cream around chemicals.

Work Hygiene Practices: Wash hands and clothing after exposure.

Supplemental Safety and Health: First aid procedures: Vomit can cause chemical pneumonia which can be fatal.

Ventilation: Filters to reduce environmental contamination.

Effects of overexposure: Dermatitis from oils in skin being removed with long term contact.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

Hazardous Ingredient	CAS number	w/w%	OSHA/PEL
2,2,4-trimethyl-1,3-pentanediol monoisobutryate	25265-77-4	<5%	Not Established
1,2-dihydroxypropane	57-55-6	<5%	Not Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Odor	Slight hydrocarbon
Odor Threshold	High
pH	8-10
Melting/Freezing Point	No data available
Initial Boiling Point and Boiling Range	212°F(100°C)
Flash Point	Waterborne. 240°F(116°C) Setaflash
Evaporation Rate	slower than ether
Flammability	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Auto-ignition Temperature	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density/Specific Gravity	1.03 approximately
Solubility(ies)	Dispersible in water
Partition Coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
VOC (Volatile Organic Compounds)	77 g/l minus water and exempt solvents

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability and Reactivity: Stable under normal conditions

Chemical Incompatibility: Strong oxidizing agents

Conditions to be avoided: Do not heat closed containers

Substances to be avoided: TK

Sensitivity to mechanical shock: None

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: CO, CO2

SECTION 11: TOXICOLOGICAL INFORMATION

Hazardous Ingredient	CAS number	w/w%	LD50
2,2,4-trimethyl-1,3-pentanediol monoisobutryate	25265-77-4	<5%	Oral, Rat >3200mg/kg
1,2-dihydroxypropane	57-55-6	<5%	Not found

Mutagens/Teratogens/Carcinogens: Not present over 0.1% in formula.

SECTION 12: ECOLOGICAL INFORMATION

Hazardous Ingredient	CAS number	w/w%	LC50
2,2,4-trimethyl-1,3-pentanediol monoisobutryate	25265-77-4	<5%	Fathered Minnow 96hr: 33mg/l
1,2-dihydroxypropane	57-55-6	<5%	Biodegradable

Mutagens/Teratogens/Carcinogens: Not present over 0.1% in formula.

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

DANGER

	UN Number	UN Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Environmental Hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not a marine pollutant
IMO/IMDG	Not regulated	Not regulated	Not regulated	Not regulated	Not a marine pollutant
IATA/CAO	Not regulated	Not regulated	Not regulated	Not regulated	Not a marine pollutant

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

SECTION 15: REGULATORY INFORMATION

UNITED STATES

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.
Superfund Amendments and Reauthorization Act (SARA) Title III: No ingredients present.

Sections 311/312 Hazard Categories (40 CFR 370.2):

Immediate/Acute Health Hazard: Yes
Delayed/Chronic Health Hazard: Yes
Fire Hazard: No
Pressure Hazard: No
Reactivity Hazard: No

Federal and State Regulations
California Prop.65: WARNING! This product contains a trace amount of known to the State of California to cause birth defects or other reproductive harm.

HMIS (U.S.A.)
Health Hazard: 1
Fire Hazard: 0
Reactivity: 0

Personal Protection: A (see Section 8 for Personal Protective Equipment (PPE).
Specific hazard: Keep out of reach of children.

SECTION 16: OTHER INFORMATION

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

Prepared by Kretus, Inc.

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Revision Note Reformatting

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.