

KRETUS®

Safety Data Sheet



SECTION 1: IDENTIFICATION

Product Name: KRETUS® EcoMagnetic™ Coating Part A

Recommended Use: Professional use only.

Manufacturer: Kretus Inc., 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

Skin sensitization: Category 1

Chronic Aquatic Hazard: Category 3

Warning

May cause an allergic skin reaction. Harmful to aquatic life with long-lasting effects.



Prevention: Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves, clothing, and eye and face wear.

Response: In case of fire, use carbon dioxide, dry chemical or alcohol-resistant foam for extinction.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs, get medical attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. P362: Take off contaminated clothing and wash before reuse.

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

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Carcinogenicity: No carcinogenic substances as defined by IARC, NTP and/or OSHA.

See Section 12 for Ecological Information.

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)
Aspartic Acid, N, N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-,1,1'4,4''-tetraethyl ester	136210-32-7	--

SECTION 4: FIRST-AID MEASURES

Contact with Eyes: Flush eyes with plenty of lukewarm water. Use fingers to ensure that eyelids are separated and the eye is being irrigated. Get medical attention.

Contact with Skin: Wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Thoroughly clean shoes, clothing, and other apparel before reuse.

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

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide, foam, and dry chemical. Use water spray to keep fire-exposed containers cool.

Unsuitable Extinguishing Media: High volume water jet.

Unusual Fire and Explosion Hazards: Wear protective clothing and self-contained breathing apparatus to protect against potential toxic and irritating fumes. Cool exposed containers with water spray. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, oxides of nitrogen, and unidentified compounds.

Advice for Fire Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Closed container may forcibly rupture under extreme heat. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Toxic gases/fumes may be given off during burning or thermal decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate personal protective equipment. Evacuate surrounding areas. Keep unnecessary and unprotected

personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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).

Containment/Clean-up Measures: Cleanup personnel must use appropriate personal protective equipment. Evacuate and keep unnecessary personnel out of spill area. Remove all sources of ignition, including flames, heat, and sparks.

Stop leak if without risk. Move containers from spill area. Dike or dam spilled material with non-combustible, absorbent material (e.g., sand, earth, vermiculite or diatomaceous earth) and control further spillage, where possible. Collect and place spilled material in container for proper disposal according to appropriate local, state and federal regulations. Do not allow spilled material or wash water to enter sewers, surface waters or groundwater systems. Use grounded or non-sparking tools and equipment. Wash spill area with soap and water. Dispose any waste according to appropriate local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe-Handling: Do not breathe vapors or spray mist. Avoid contact with eyes or skin. Avoid contact with clothing. Use only with adequate ventilation and personal protection. Remove contaminated personal protective equipment (PPE), then wash hands and face thoroughly after handling and before eating and drinking. Keep container closed when not in use. Empty containers retain product residue and can be hazardous. Do not get in eyes, on skin or on clothing. Do not ingest. Avoid release to the environment.

Conditions for Safe Storage: Storage period is 6 months after delivery by Pflaumer. Maximum storage temperature is 30°C (86°F). Keep away from food products during use and storage. 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. Personnel education and training in the safe use and handling of this product are required under OSHA Hazard Communication Standard 29 CFR 1910.1200.

Incompatible Materials or Ignition Sources: Hazardous polymerization does not occur. Avoid strong oxidizing agents, acids, isocyanates.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Measures/Controls: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts, and thermal decomposition products below appropriate airborne concentration standards and guidelines.

Environmental Exposure Controls: Avoid release to the environment. Construct a dike to prevent spreading of spills.

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 Protective Equipment

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. Use positive pressure supplied air respirator when airborne concentrations are not known, when airborne solvent levels are 10 times the appropriate TLV, and when spraying is performed or product is applied by aerosol in a confined space or area with limited ventilation. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Contact health and safety professional or manufacturer for specific information.

Eye/Face: Use chemical resistant goggles. Chemical safety goggles in combination with a full face shield must be used if a splash hazard exists.

Hands: Use permeation resistant gloves such as butyl rubber, nitrile rubber, or neoprene.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	liquid; clear/colorless
Odor	Slight inherent odor
Odor Threshold	No data available
PH	No data available
Melting/Freezing Point	No data available
Initial Boiling Point and Boiling Range	>200°C
Flash Point	74°C ca
Evaporation Rate	No data available
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	1.06 ± 0.1
Solubility(ies)	Insoluble 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
SECTION 10: STABILITY AND REACTIVITY	
<p>Chemical Stability: Stable</p> <p>Possibility of Hazardous Reactions: Hazardous polymerization will not occur.</p> <p>Conditions to Avoid: Extreme heat.</p> <p>Incompatible Materials: Strong oxidizing agents, acids, and isocyanates.</p> <p>Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen, other undetermined compounds.</p>	
SECTION 11: TOXICOLOGICAL INFORMATION	
<p>ACUTE TOXICITY LD50 Oral Rat >2,000 mg/kg LC50 Inhalation Rat >4,224 mg/l, 4h LD50 Dermal Rat >2,000 mg/kg</p> <p>IMMEDIATE (ACUTE) EFFECTS Skin Corrosion/Irritation (Rabbit, 24h): None Skin Sensitization (Guinea Pig): Positive Carcinogenicity: OSHA Not Listed. IARC Not Listed. NTP Not Listed.</p>	
SECTION 12: ECOLOGICAL INFORMATION	
<p>Toxicity: Acute Toxicity to Fish: LC50 66 mg/l (Zebra Fish, 96h), LC50 88.6 mg/l (Water Flea, 96h); Acute Toxicity to algae: ErC50 113 mg/l.</p> <p>Persistence and Degradability: Not readily degradable.</p> <p>Bioaccumulative Potential: Bioaccumulation ca. 8,228 BCF.</p> <p>Other Adverse Effects: Toxicity to terrestrial Plants: EC50 ≥100 mg/kg, 14d)</p>	

Other Information: Toxicity to Microorganisms: EC 50: 3,110 mg/l (bacteria, 3 h).

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose in accordance with Federal, State, and Local laws and regulations. The generation of waste should be avoided or minimized wherever possible. Empty containers should be taken to an approved waste handling site for recycling or disposal. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty Container Precautions: Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental laws and regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
DOT	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Harmful to aquatic life with long-lasting effects.
IMO/IMDG	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Harmful to aquatic life with long-lasting effects.
IATA/ICAO	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Harmful to aquatic life with long-lasting effects.

Special Precautions for User: None Known.

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

SECTION 15: REGULATORY INFORMATION

State Right to Know

Component	CAS	MA	NJ	PA
Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl) bis-, 1,1',4,4'-tetraethyl ester	136210-32-7	136210-32-7	136210-32-7	136210-32-7

Inventory

Inventory	CAS	Inventories
Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl) bis-, 1,1',4,4'-tetraethyl ester	136210-32-7	TSCA, DSL, EINECS/ELINCS, AICS, TECSC, HSNO, NCSR, KECI

Safety and Environmental Regulations/ Legislation Specific for the Substance or Mixture SARA Hazard Classifications

United States Environment

U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities: None.

U.S. – SARA – Section 311/312 Hazard Categories: None.

U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances TPQs: None
U.S. – CERCLA/SARA – Section 313 – Emissions Reporting: None
U.S. – CERCLA/SARA – Section 313 – PBT Chemical Listing: None

United States – California Environment

U.S. – California – Proposition 65 – Carcinogens List: None
U.S. – California – Proposition 65 – Developmental Toxicity: None
U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL): None
U.S. – California – Proposition 65 – No Significant Risk Levels (NSRL): None
U.S. – California – Proposition 65 – Reproductive Toxicity – Female: None
U.S. – California – Proposition 65 – Reproductive Toxicity – Male: None

SECTION 16: OTHER INFORMATION

Prepared by Kretus Inc.

Revision Date No data available.

Revision Note No information available.

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.