KRETUS® Poly Accelerant

SECTION 1: IDENTIFICATION

Product Name: KRETUS® Poly Accelerant

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

Aspiration hazard: Category 2
Flammable liquids: Category 1
Skin corrosion: Category 1C
Serious eye damage: Category 1
Skin sensitization: Category 1
Germ cell mutagenicity: Category 2
Reproductive toxicity: Category 1B
Specific target organ toxicity - single exposure: Category 1
Specific target organ toxicity: Category 1
Acute toxicity, Oral: Category 5
Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 1

DANGER

Extremely flammable liquid and vapor. Harmful if swallowed. Causes severe skin burns, eye damage, and damage to organs. May cause drowsiness, dizziness, skin sensitization, an allergic skin reaction, or damage fertility or the unborn child. Suspected of causing genetic defects. Toxic to aquatic life with long-lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Prevention: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Do not eat, drink or smoke when using this product. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take action to prevent static discharges.

Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly with soap and water after handling. Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment. Collect spillage.

Response: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water or shower. If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical advice/attention.

IN CASE OF FIRE: Use DRY chemical, alcohol- resistant foam, water spray/fog or carbon-dioxide to extinguish.

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Concentration (% by Weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>0000067-64-1</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Aspartic Acid, N, N'-{2-methyl-1,5-pentanediyl]bis-,1,1',4,4'-tetraethyl ester</td>
<td>168253-59-6</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Benzene</td>
<td>0000071-43-2</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>77-58-7</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Tetrahydroxypropylethylene diamine</td>
<td>102-60-3</td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST-AID MEASURES

Contact with Eyes
Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist/physician. Continue rinsing eyes during transport to hospital. Take care not to rinse contaminated water into the unaffected eye or onto the face.

Contact with Skin
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Take victim immediately to hospital to obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.
**Inhalation**
Remove source of exposure or move person to fresh air and keep comfortable for breathing. If victim is not breathing, call 911 and administer CPR as directed.

Eliminate all ignition sources if safe to do so.

**Ingestion**
Rinse out mouth, spit out liquid. Do NOT induce vomiting and seek medical advice immediately. If vomiting occurs naturally, lie on your side, in the recovery position. Immediately call 911 POISON CENTER/doctor. Immediately transport to the nearest medical facility for treatment.

### SECTION 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Dry chemical, foam, carbon dioxide or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media**
No data available.

**Specific Hazards in Case of Fire**
No data available.

**Fire-fighting Procedures**
Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions**
Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Emergency Procedure:**
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

RELEASE CAN CAUSE FIRE/EXPLOSION. LIQUIDS/VAPORS MAY IGNITE.

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

**Recommended Equipment:**
Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

**Personal Precautions:**
Avoid breathing vapor. Avoid contact with skin, eye, or clothing.
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use explosive proof equipment. Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up:
Sand, clay and absorbent socks can be used to contain a spill.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe-Handling
Wash hands after use. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking, and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements
Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Conditions for Safe Storage
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Ground and bond containers and receiving equipment. Avoid static electricity by grounding.

Electrostatic charges may be generated during pumping. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Skin Protection: Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene, or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.
**Eye Protection:** Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

**Appropriate Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA TWA (ppm)</th>
<th>OSHA TWA (mg/m³)</th>
<th>OSHA STEL (ppm)</th>
<th>OSHA STEL (mg/m³)</th>
<th>OSHA Tables-Z1,2,3</th>
<th>OSHA Carcino-gen</th>
<th>OSHA Skin des-ignation</th>
<th>NIOSH TWA (ppm)</th>
<th>NIOSH TWA (mg/m³)</th>
<th>NIOSH STEL (ppm)</th>
<th>NIOSH STEL (mg/m³)</th>
<th>NIOSH Carcinogen</th>
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<td>1000</td>
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<td>none</td>
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<td>none</td>
<td>none</td>
<td>250</td>
<td>590</td>
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<td>none</td>
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<td>none established</td>
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<td>50(a) / 10min</td>
<td>1</td>
<td>1</td>
<td>0.1c</td>
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<tr>
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<th>ACGIH TWA (mg/m³)</th>
<th>ACGIH STEL (ppm)</th>
<th>ACGIH STEL (mg/m³)</th>
<th>ACGIH Carcinogen</th>
<th>ACGIH Notations</th>
<th>ACGIH TLV Basis</th>
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<tr>
<td>Acetone</td>
<td>500</td>
<td>1188</td>
<td>750</td>
<td>1782</td>
<td>A4</td>
<td>A4; BEI</td>
<td>URT &amp; eye irr; CNS impair; hematologic eff</td>
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<td>Aspartic Acid, N, N'-[2-methyl-1,5-pentanediyli]bis-[1,1',4,4'-tetraethyl ester]</td>
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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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<th>Appearance</th>
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<tr>
<td>Odor Description</td>
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<td>Odor Threshold</td>
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<tr>
<td>pH</td>
<td>n/a</td>
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<tr>
<td>Melting/Freezing Point</td>
<td>n/a</td>
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<td>Initial Boiling Point and Boiling Range</td>
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<td>Flash Point</td>
<td>-40 °F</td>
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<td>Evaporation Rate</td>
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<tr>
<td>Flammability</td>
<td>Flashpoint below 73°F</td>
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<td>Upper/Lower Flammability or Explosive Limits</td>
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<tr>
<td>Auto-ignition Temperature</td>
<td>n/a</td>
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<tr>
<td>Vapor Pressure</td>
<td>n/a</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>n/a</td>
</tr>
<tr>
<td>Density</td>
<td>6.61 lb/gal</td>
</tr>
<tr>
<td>Relative Density/Specific Gravity</td>
<td>0.79</td>
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<tr>
<td>Water Solubility(ies)</td>
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<tr>
<td>Partition Coefficient: n-octanol/water</td>
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<tr>
<td>Auto-ignition Temperature</td>
<td>n/a</td>
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<tr>
<td>Decomposition Point</td>
<td>0</td>
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<tr>
<td>Viscosity</td>
<td>n/a</td>
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<tr>
<td>%VOC</td>
<td>0.00%</td>
</tr>
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</table>
**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions of use.

**Conditions to be avoided:** Avoid heat, sparks, open flames and other ignition sources.

**Hazardous Reactions/Polymerization:** No data available.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity:**
Ingestion: May be harmful or fatal if swallowed.

**Skin Corrosion/Irritation:**
Causes mild skin irritation

**Serious eye damage/irritation:**
Causes serious eye irritation

**Germ cell mutagenicity:**
No data available

**Respiratory/Skin Sensitization:**
Slightly irritating to respiratory system.

**Carcinogenicity:**
No data available

**Reproductive toxicity:**
No data available

**Specific Target Organ Toxicity - Repeated Exposure:**
No data available

**Specific Target Organ Toxicity - Single Exposure:**
May cause drowsiness or dizziness

**Aspiration hazard:**
May be harmful if swallowed and enters airways

0000067-64-1 ACETONE
0000071-43-2 BENZENE

**Potential Health Effects - Miscellaneous**
0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.
SECTION 12: ECOLOGICAL INFORMATION

Bio-accumulative Potential:
No data available.

Persistence and Degradability:
No data available.

Mobility in Soil:
No data available.

Toxicity:
No data available

Other adverse effects:
No data available.

Bio-accumulative Potential
0000067-64-1 ACETONE
Does not bioaccumulate.

Persistence and Degradability
0000067-64-1 ACETONE
91% readily biodegradable, Method: OECD Test Guideline 301B

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:
Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: TRANSFER INFORMATION

DANGER

<table>
<thead>
<tr>
<th>UN Number</th>
<th>UN Proper Shipping Name</th>
<th>Transport Hazard Class(es)</th>
<th>Packing Group</th>
<th>Environmental Hazards</th>
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<tbody>
<tr>
<td>DOT</td>
<td>UN1090 Acetone Solution</td>
<td>3</td>
<td>II</td>
<td>-</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN1090 Acetone Solution</td>
<td>3</td>
<td>II</td>
<td>Marine Pollutant</td>
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<tr>
<td>IATA/CAO</td>
<td>UN1090 Acetone Solution</td>
<td>3</td>
<td>II</td>
<td>-</td>
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</tbody>
</table>

### SECTION 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Regulation List</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000067-64-1</td>
<td>Acetone</td>
<td>CERCLA, SARA312, VOC_exempt, TSCA, RCRA, OSHA</td>
</tr>
<tr>
<td>168253-59-6</td>
<td>Aspartic Acid, N, N’-(2-methyl-1,5-pentanediyl)bis-,1,1’,4,4’-tetraethyl ester</td>
<td>Inventory (listed)—TSCA, DSL, EINECS/ELINCS, AICS, MITI, EICSC, KECI</td>
</tr>
<tr>
<td>0000071-43-2</td>
<td>Benzene</td>
<td>CERCLA, SARA312, SARA313, VOC, IARC Carcinogen, TSCA, RCRA, OSHA Carcinogen, CA TAC TOX, CA TAC Carcinogen, CA Carcinogen, NEI - National Emissions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inventory, CA Prop65 - California Proposition 65, CA Prop65 Type Toxicity Cancer – CA Proposition65 Type Toxicity Cancer, CA Prop65 Type Toxicity Developmental, CA Prop65 Type Toxicity Male – CA Proposition65 Type Toxicity Male, OSHA</td>
</tr>
<tr>
<td>77-58-7</td>
<td>Dibutyltin Dilaurate</td>
<td>Inventory (listed)—AICS, DSL, TSCA, MITI, KECI, PICCS, China, New Zealand</td>
</tr>
<tr>
<td>102-60-3</td>
<td>Tetrahydroxypropyl ethylenediamine</td>
<td>Inventory (listed)—TSCA, US CA Prop65 Type Toxicity Cancer – CA Proposition65 Type Toxicity Cancer, CA Proposition65 Type Toxicity Male, OSHA</td>
</tr>
</tbody>
</table>

### U.S. State Regulations

**California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

⚠️ **WARNING:** This product can expose you to chemicals including propylene oxide and benzene, which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

### SECTION 16: OTHER INFORMATION

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

**Prepared by** Kretus, Inc.

**Revision Date** No data available.

**Revision Note** No information available.

**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.