

KRETUS®

Safety Data Sheet



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.

Chemical Name	CAS No.	Concentration (% by Weight)
Acetone	0000067-64-1	Trade Secret
Aspartic Acid, N, N'-(2-methyl-1,5-pentanediy)bis-,1,1',4,4'-tetraethyl ester	168253-59-6	Trade Secret
Benzene	0000071-43-2	Trade Secret
Dibutyltin Dilaurate	77-58-7	Trade Secret
Tetrahydroxypropylethylenediamine	102-60-3	Trade Secret

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.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m ³)	OSHA STEL (ppm)	OSHA STEL (mg/m ³)	OSHA-Tables-Z1,2,3	OSHA Carcino-gen	OSHA Skin des-ignation	NIOSH TWA (ppm)	NIOSH TWA (mg/m ³)	NIOSH STEL (ppm)	NIOSH STEL (mg/m ³)	NIOSH Carcino-gen
Acetone	1000	2400			1			250	590			
Aspartic Acid, N, N'-(2-methyl-1,5-pentanediy)bis-,1,1',4,4'-tetraethyl ester	none established	none established	none established	none established	none established	none established	none established	none established	none established	none established	none established	none established
Benzene	1(a) / 25ceiling		50(a) / 10min		1	1		0.1c		1c		1
Dibutyltin Dilaurate		0.100000		0.200000					0.100000			

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m ³)	ACGIH STEL (ppm)	ACGIH STEL (mg/m ³)	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis
Acetone	500	1188	750	1782	A4	A4; BEI	URT & eye irr; CNS impair; hematologic eff
Aspartic Acid, N, N'-(2-methyl-1,5-pentanediy)bis-,1,1',4,4'-tetraethyl ester	none established	none established	none established	none established	none established	none established	none established
Benzene	0.5	1.6	2.5	8	A1	Skin; A1; BEI	Leukemia
Dibutyltin Dilaurate		0.100000		0.200000			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

VOC Actual	0.00 lb/gal
Density VOC	0.00 lb/gal
% solids by weight	0.00%
VOC composite partial pressure	0.00279882 mmHg (Calculated @ 20 C/68 F)

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: TRANSPORT INFORMATION**DANGER**

	UN Number	UN Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Environmental Hazards
DOT	UN1090	Acetone Solution	3	II	-
IMO/IMDG	UN1090	Acetone Solution	3	II	Marine Pollutant
IATA/CAO	UN1090	Acetone Solution	3	II	-

Emergency Response Guide (ERG): Emergency Response Guide 127

SECTION 15: REGULATORY INFORMATION

CAS Number	Chemical Name	Regulation List
0000067-64-1	Acetone	CERCLA, SARA312, VOC_exempt, TSCA, RCRA, OSHA
168253-59-6	Aspartic Acid, N, N'-(2-methyl-1,5-pentanediy)bis-,1,1',4.4'-tetraethyl ester	Inventory (listed)—TSCA, DSL, EINECS/ELINCS, AICS, MITI, EICSC, KECI
0000071-43-2	Benzene	CERCLA, SARA312, SARA313, VOC, IARC Carcinogen, TSCA, RCRA, OSHA Carcinogen, CA TAC TOX, CA TAC Carcinogen, CA Carcinogen, NEI - National Emissions Inventory, CA Prop65 - California Proposition 65, CA Prop65 Type Toxicity Cancer – CA Proposition65 Type Toxicity Cancer, CA Prop65 Type Toxicity Develop - CA Proposition65 Type Toxicity Developmental, CA Prop65 Type Toxicity Male – CA Proposition65 Type Toxicity Male, OSHA
77-58-7	Dibutyltin Dilaurate	Inventory (listed)—AICS, DSL, TSCA, MITI, KECI, PICCS, China, New Zealand
102-60-3	Tetrahydroxypropyl ethylenediamine	Inventory (listed)—TSCA, US CA Prop65 Type Toxicity Cancer – CA Proposition65 Type Toxicity Cancer,

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.