

MATERIAL SAFETY DATA SHEET

Section 1. Product and Company Information

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SUPERCEDES MSDS DATED: September 17, 2003

PRODUCT NAME: CeRam-Kote Thinner 1



The information contained herein is accurate to the best of our knowledge. However, Freecom, Inc does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

Section 2. Composition and Ingredient Information

Material Description	CAS Number	Weight %
Methyl Ethyl Ketone	78-93-3	100%

Exposure Limits

INGREDIENT	OSHA PEL (8-HR TWA)	ACGIH TLV (8-HR TWA)	OTHER LIMITS RECOMMENDED
Methyl Ethyl Ketone	200 ppm	200 ppm	OSHA 300 ppm ACGIH 300 ppm CEILING - not known

Section 3. Physical Data

Description	CeRam-Kote Thinner 1
Boiling Range	77-81°C / 172-178°F
Vapor Pressure (mm of Hg @ 20°C)	70.0
Nonexempt VOC Partial Pressure (mm of Hg @ 20°C)	70.0
Vapor Density (air = 1)	2.5
Water Absorption	Appreciable
Gravity @ 60°F: API:	44.3
Specific Gravity (Water = 1) :	0.805
Pounds / Gallon:	6.706
VOCs (>0.44 lbs./sq. in.) :	100.0 Vol. % / 805.0 g/l / 6.705 lbs/gal
Total VOCs (TVOC):	100.0 Vol. % / 805.0 g/l / 6.705 lbs/gal
Nonexempt VOCs (CVOC) :	100.0 Vol. % / 805.0 g/l / 6.705 lbs/gal
Odor	Ketone
Appearance	Liquid, Water - White
Solvency Parameters: HKB (Hydrogen Bonding):	28.4
PKB (Polarity) :	41.6
DKB (Dispersion) :	30.0
Refractive Index	1.379

Section 4. Fire and Explosion Hazard Data

Description	CeRam-Kote Thinner 1
Flammability Classification OSHA	Class IB
DOT Shipping Name	Methyl Ethyl Ketone, 3, UN1193, PG-II (Flammable Liquid)
Flashpoint (Test Method):	-2°C / 28°F (TCC)
Lower Flammable Limit In Air (% by vol.)	1.8
Auto Ignition Temperature	458°C / 858°F (Lowest Component)
Extinguishing Media	NFPA Class B extinguishers (Carbon Dioxide or foam) for Class IB liquid fires
Unusual Fire and Explosion Hazards	FLAMMABLE!! Keep container tightly closed. Isolate from oxidizers, heat, sparks, electric equipment and open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!
Special Fire Fighting Procedures	Water spray may be ineffective on fire but can protect fire-fighters and cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves and rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

Section 5. Reactivity Data

Description	CeRam-Kote Thinner 1
Stability	Stable
Materials to avoid	Isolate from strong oxidizers such as permanganates, chromates and peroxides.
Hazardous Decomposition Products	Carbon Monoxide, Carbon Dioxide from burning.
Hazardous Polymerization	Will not occur.
Conditions to avoid	Isolate from oxidizers, heat, sparks, electric equipment and open flame.

Section 6. Ecological Information

Methyl Ethyl Ketone Is considered a Hazardous Air Pollutant (HAP).

Section 7. Toxicological Properties

Description	
This product meets requirements of Southern California AQMD Rule 443.1 and similar regulations. California Proposition 65: This product contains no know chemicals known to the State of California to cause cancer or reproductive toxicity. If >5000 pounds of this product is in one container the "RQ" is exceeded.	
Methyl Ethyl Ketone	Lowest Known Lethal Dose Data Lowest Known LD50 (Oral) 3400.0 mg/kg (Rats)
	Lowest Known LC50 (Vapors) 2000 ppm (Rats)
	Lowest Known LD50 (Skin) 12600.0 mg/kg (Rabbits)
Threshold Limit Value:	200 ppm (Freshly Prepared)

Section 8. Health Hazard Data

Description	CeRam-Kote Thinner 1
Acute Hazards	<p>Eye & Skin Contact: Primary irritation to skin, defatting, dermatitis. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.</p> <p>Inhalation: Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.</p> <p>Swallowing: Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.</p> <p>Conditions Aggravated: Persons with severe skin, liver or kidney problems should avoid use.</p>
Emergency and First Aid Procedures:	<p>Eye Contact: For eyes, flush with plenty of water for 15 minutes and get medical attention.</p> <p>Skin Contact: In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap and water. Wash contaminated clothing before reuse.</p> <p>Inhalation: After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.</p> <p>Swallowing: If swallowed, CALL A PHYSICIAN IMMEDIATELY! Induce vomiting promptly using physician's instructions or by having patient stick finger down throat. Never give anything by mouth to an unconscious person.</p>
Carcinogenicity	This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

Section 9. Spill or Leak Procedures

Description	CeRam-Kote Thinner 1
Steps to be Taken in Case Material is Released or Spilled	Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials. Mop up and dispose of. Persons without proper protection should be kept from area until cleaned up.
Waste Disposal Method	Recycle or dispose of observing local, state and federal health, safety and pollution laws. If questions exist, contact the appropriate agencies.

Section 10. Safe Handling and Use Information	
Description	CeRam-Kote Thinner 1
Handling	<p>Isolate from oxidizers, heat, sparks, electric equipment and open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin and eyes.</p> <p>Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse.</p> <p>Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze or weld. Empty container very hazardous! Continue all label precautions.</p>
Storage	Do not store above 49°C / 120°F. Store large amounts in structures made for OSHA Class IB liquids. Keep container tightly closed and upright when not in use to prevent leakage.

Section 11. Exposure Controls / Personal Protection	
Description	CeRam-Kote Thinner 1
Exposure Controls	Ventilate to keep vapors of this material below 100 ppm. If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure, self-contained breathing apparatus. Consult Safety Equipment Supplier. Use explosion-proof equipment.
Ventilation Local Exhaust Mechanical (General) Special Other	Necessary Acceptable None None
Personal Protections	Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse.

Section 12. General Comments	
CeRam-Kote Thinner 1	
<p>The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.</p>	

Section 13. Right-To-Know – Section 313 – Supplier Notification

CeRam-Kote Thinner 1

All components of this product are on the TSCA list. SARA Title III Section 313. This product contains the indicated <%> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 371. This information must be included in all MSDSs that are copied and distributed for this material.

Section 14. Transport Information

Description	CeRam-Kote Thinner 1
DOT/IATA/IMDG Shipping Names	Methyl Ethyl Ketone
Hazard Class or Division	3
Secondary	None
UN Identification Number	UN 1193
Packing Group	II
Label(s) required	Flammable (3)
Quantity Limitations (Air only)	
Passenger Aircraft	5 liters (5 quarts)
Cargo Aircraft	60 liters (15 gallons)
Packing Instructions	
Passenger Aircraft	305
Cargo Aircraft	307