

MATERIAL SAFETY DATA SHEET

Section 1. Product and Company Information

MANUFACTURER: CERAM-KOTE COATINGS, INCORPORATED
P.O. Box 2119
Big Spring, Texas 79721-2119

TELEPHONE: For information purposes 8:00 a.m. to 5:00 p.m. CDT
(432) 263-8497 (800) 346-4299

EMERGENCY: (432) 263-8497 (800) 346-4299

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SUPERSEDES MSDS DATED: July 28, 2006

PRODUCT NAME: CeRam-Thane 100



Section 2. Composition and Ingredient Information

Chemical Name	CAS Number	Weight %
Water	7732-18-5	>50
1-methyl-2-pyrrolidinone	872-50-4	1 - 5
Tripropylene Glycol Monomethyl Ether	25498-99-1	1 - 5

Section 3. Physical Data

Description	CeRam-Thane 100
Specific Gravity (kg/l)	1.03
Boiling Point	>100°C (>212°F)
Vapor Density (Air = 1)	of water vapor
Viscosity @ 78°F (25.6°C) in cP	100 to 300
pH	8.0
Vapor pressure [(mm Hg at 21°C (70°F)]	18.52
Melting Point	No Data
Molecular weight	Mixture
Weight per gallon	8.6 lbs/gal (1,030 g/l)
Volatiles (% by wt)	42
Non-Volatiles	58
VOC content	1.0 lb/gal (120 g/L)

Section 4. Fire Fighting Measures

Description	CeRam-Thane 100
Flashpoint	>100°C (>212°F)
Flammable Limits	LFL: No Data UFL: No Data
Auto Ignition Temperature	No Data
Extinguishing Media	Ignition will give rise to a Class B fire. For dry polymer use water or carbon dioxide
Unusual Fire and Explosion Hazards	May generate toxic or irritating combustion products. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases. May generate ammonia gas. When dried polymer burns, water (H ₂ O), Carbon Dioxide (CO ₂), Carbon Monoxide (CO) and smoke are produced.
Fire Fighting Instructions	Firefighters should wear butyl rubber boots, gloves, body suit and a self-contained breathing apparatus.

Section 5. Reactivity Data

Description	CeRam-Thane 100
Stability	Stable at ambient temperatures. Coagulation may occur following freezing, thawing or boiling.
Incompatibility	Mineral acids (i.e., sulfuric, phosphoric, etc.). Alkalis (i.e., Sodium or Potassium Hydroxide, etc.).
Hazardous Decomposition Products	Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm).
Hazardous Polymerization	Will not occur.

Section 6. Health and Safety

Description	CeRam-Thane 100
Primary Routes of Exposure	Eye, Skin, Ingestion, Inhalation
Potential Health Effects	<p>Acute (short term): Product vapor in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. The effect is transient and has no known residual effect. Contact with eyes causes irritation, redness and discomfort which is transient. Contact with skin causes mild irritation and discomfort. Inhalation of mists and/or vapors may cause irritation in the respiratory tract. Coughing and chest pain may result. Product is absorbed through the skin and may cause nausea, headache and general discomfort.</p> <p>Chronic (long term): Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposures may result in adverse respiratory effects such as cough, tightness of chest or shortness of breath, adverse eye effects such as conjunctivitis or corneal damage. Effects from inhalation of vapors may be delayed. Repeated and/or prolonged exposure to low concentrations of vapor may cause sore throat and/or eye irritation which are transient.</p>
Medical Conditions Aggravated by Exposure	Asthma, Chronic respiratory disease (e.g. Bronchitis, Emphysema), Eye disease.
Carcinogens under OSHA, ACGIH, NTP, IARC, OTHER	This product contains no carcinogens in concentrations of 0.1 percent or greater.

Section 7. First Aid Measures

Description	CeRam-Thane 100
Eye contact	Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.
Skin contact	Wash affected area with soap and water. Remove contaminated clothing and shoes.
Inhalation	Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.
Ingestion	If swallowed, call a physician immediately. Note to physicians: Remove stomach contents by gastric suction or induct vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

Section 8. Personal Protection

Description	CeRam-Thane 100
Respiratory Protection	Chemical Cartridge Respirator with face piece to protect against the organic vapor; Supplied air respirator with full face piece; Self-contained breathing apparatus in pressure demand mode under the following conditions: during repair and cleaning of equipment, during transfer or discharge of the product, sampling, spray applications, and emergency situations.
Dermal Protection	Rubber gloves. Long-sleeved clothing.
Eye Protection	Splash-proof eye goggles. In emergency situations, use eye goggles with a full face shield.
Work and Hygienic Practices	Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet.
Personal Exposure Limits (PEL)	Personal Exposure Limits (PEL) for both TWA and STEL have not been established for the hazardous ingredients listed on this MSDS.

Section 9. Transport Information

Description	CeRam-Thane 100
DOT Non-bulk Shipping Name	Chemicals, N.O.I. - Not DOT regulated / / Keep from Freezing
IMO Shipping Data	Chemicals, N.O.I. - Not IMO regulated / / Keep from Freezing
ICA/IATA Shipping Data	Chemicals, N.O.I. - Not IATA regulated / / Keep from Freezing

Section 10. Spills, Leaks and Disposal

Description	CeRam-Thane 100
Containment Techniques(Removal of ignition sources, diking, etc.)	Stop the leak, if possible. Ventilate the space involved. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading.
Clean-up Procedures	If recovery is not feasible, add mix with dry soil, sand or non-reactive absorbent (Sodium Bisulfate) and place in a container or dumpster pending disposal. Transfer to containers by suction, preparatory or later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Wash contaminated property (e.g., automobiles) quickly before the material dries. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.
Other Emergency Advice	Open enclosed spaces to outside atmosphere. Spilled polymer emulsion is very slippery. Use care to avoid falls. A film will form on drying. Remove saturated clothing and wash contacted skin area with soap and water. Wear protective clothing, boots, gloves, and eye protection.
Waste Disposal	Comply with all Federal, State and Local regulations. For small quantities (less than 100 gallons): Disposal to municipal or industrial wastewater treatment plants is normally acceptable. Obtain approval from these authorities before disposal. The product may cause foaming when agitated. The product can be chemically or biologically degraded. For large quantities: Disposal through licensed waste disposal facilities is suggested. The product can be incinerated, though chemical or biological treatment is sufficient. Chemical precipitation/coagulation can be used to facilitate removal of solids (consult manufacturer for detailed procedure). NOTE: As supplied or diluted, product material (foam included) when splashed on automobiles or other personal property, is difficult to remove if allowed to dry.

Section 11. Handling and Storage

Description	CeRam-Thane 100
Storage	Keep away from: acids, oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Avoid freezing temperatures during storage. Minimize contact with atmospheric air to prevent inoculation with microorganisms. If headspace ventilation is required, use air to reduce skin formation on emulsion surface. Do not store in iron or other reactive metal containers.
Handling	Avoid contact with skin or eyes. When handling, do not eat, drink, or smoke. Avoid using in any spray application without strict conformance to all applicable electrical codes and the OSHA limit for maximum allowable airborne concentrations.
Other Precautions	Emergency showers and eye stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g., OSHA).

Section 12. Toxicological Properties

Description	CeRam-Thane 100
Acute Oral Toxicity (LD50, Rat)	No Data
Acute Dermal Toxicity (LD50, Rabbit)	No Data
Acute Inhalation (LC50, Rat)	No Data
Other Acute Effects	No Data
Irritation Effects Data	Projecting respiratory irritation due to mild skin irritation.
Chronic/Subchronic Data	No delayed, subchronic or chronic test data are known. The product does not cause sensitization.

Section 13. Regulatory Information

Description	CeRam-Thane 100
US Federal Regulations	
Toxic Substance Control Act (TSCA)	All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory
OSHA	Hazard Communication Standard (29CFR1910.1200) hazard class(es) irritant.
EPA SARA Title III	Section 312 (40CFR370) hazard class Immediate Health Hazard
State Regulations	None
<ul style="list-style-type: none">Proposition 65 Substances (Component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986")	