Safety Data Sheet

Material Name: Part-B CeRam-Kote 2000 (Curing Agent)

*** Section 1 - Product and Company Identification ***

Manufacturer Information
CERAM-KOTE COATINGS INCORPORATED
1800 Industrial Drive
Big Spring, TX 79720
Phone: 432-263-8497
Emergency # ChemTel +1 (800) 255-3924 Contract #: MIS1807449
Outside the USA: 1-813-248-0585 For Australia: 1-300-954-583
For Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086, Mexico: 800-099-0731

*** Section 2 - Hazards Identification ***

GHS Classification:
- Acute Toxicity - Oral Category 4
- Acute Toxicity - Inhalation Category 4

GHS LABEL ELEMENTS
Symbol(s)

Signal Word
Warning

Hazard Statements
- Harmful if swallowed or in contact with skin.
- Harmful if inhaled.

Precautionary Statements
Prevention
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Response
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Section 3 - Composition / Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-51-6</td>
<td>Benzyl alcohol</td>
<td>&gt;45</td>
</tr>
<tr>
<td>1761-71-3</td>
<td>Cyclohexanamine, 4,4'-methylenebis-</td>
<td>&lt;2</td>
</tr>
</tbody>
</table>
**Safety Data Sheet**

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### **Section 4 - First Aid Measures**

**First Aid: Eyes**
Immediately flush eyes with water for at least 15 minutes. Get immediate medical assistance.

**First Aid: Skin**
Promptly wash thoroughly with mild soap and water.

**First Aid: Ingestion**
DO NOT induce vomiting. Seek medical attention.

**First Aid: Inhalation**
Remove to fresh air. Give oxygen if breathing is difficult.

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### **Section 5 - Fire Fighting Measures**

**General Fire Hazards**
See Section 9 for Flammability Properties.
Decomposition and combustion products may be toxic.

**Hazardous Combustion Products**
Carbon monoxide, carbon dioxide, aldehydes and nitrogen oxides.

**Extinguishing Media**
Foam, CO2, or dry chemical. A water spray can also be used.

**Unsuitable Extinguishing Media**
None

**Fire Fighting Equipment/Instructions**
Use self-contained breathing apparatus.

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### **Section 6 - Accidental Release Measures**

**Recovery and Neutralization**
Attempt to reclaim the free product, if this is possible.

**Materials and Methods for Clean-Up**
For land spill: Avoid all personal contact. Take up with absorbent material. Shovel into closeable containers. Flush contaminated area with water.

For Water Spill: This product is miscible in water. That means it is totally dissolved when mixed with water. Due to this property, this is considered a marine pollutant; however, when mixed with Part A, and after the product cures, it is totally inert.

For Air Release: This product reacts with air by absorbing the moisture out of the air. Take up with absorbent material. Shovel into closeable containers. Flush contaminated area with water.

**Emergency Measures**
Isolate area. Keep unnecessary personnel away.

**Personal Precautions and Protective Equipment**
Wear appropriate protective equipment and clothing during clean-up.

**Environmental Precautions**
Prevent material from entering sewers or waterways.

**Prevention of Secondary Hazards**
None
**Safety Data Sheet**

**Material Name:** Part-B CeRam-Kote 2000 (Curing Agent)

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### **Section 7 - Handling and Storage**

**Handling Procedures**
Avoid contact with skin and eyes. Wash thoroughly after handling.

**Storage Procedures**
Keep containers tightly closed.

**Incompatibilities**
Avoid strong oxidizing agents, acids, copper and its alloys.

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### **Section 8 - Exposure Controls / Personal Protection**

**Component Exposure Limits**
Benzyl alcohol (202-859-9)
- Finland: 10 ppm TWA; 45 mg/m³ TWA

**Engineering Measures**
Good general mechanical ventilation is recommended. Local exhaust recommended.

**Personal Protective Equipment: Respiratory**
If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

**Personal Protective Equipment: Hands**
Use chemical resistant gloves such as neoprene or natural rubber gloves.

**Personal Protective Equipment: Eyes**
Splash-proof chemical goggles.

**Personal Protective Equipment: Skin and Body**
Normal work clothing (long sleeved shirts and long pants) is recommended.

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### **Section 9 - Physical & Chemical Properties**

- **Appearance:** Translucent
- **Physical State:** Liquid
- **Vapor Pressure:** Not Tested
- **Boiling Point:** >200°C (392°F)
- **Solubility (H₂O):** Miscible
- **Evaporation Rate:** Not Tested
- **Viscosity:** 300-450 cP
- **Percent Volatile:** Nil
- **Flash Point:** >200°F (93.3°C)
- **Upper Flammability Limit (UFL):** NA
- **Burning Rate:** Not Tested
- **Odor:** Ammonical
- **pH:** Alkaline
- **Vapor Density:** >Air
- **Melting Point:** NA
- **Specific Gravity:** 1.07
- **VOC:** 0 lb/gal (0 g/l)
- **Bulk Density:** 1.87 lb/quart (0.85 kg)
- **Octanol/H₂O Coeff.:** Not Tested
- **Flash Point Method:** None
- **Lower Flammability Limit (LFL):** NA
- **Auto Ignition:** NA

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### **Section 10 - Chemical Stability & Reactivity Information**

**Chemical Stability**
This is a stable material.

**Hazardous Reaction Potential**
Will not occur.

**Conditions to Avoid**
None
Incompatible Products
Avoid strong oxidizing agents, acids, copper and its alloys.

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide, aldehydes, and nitrogen oxides.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

Component Analysis - LD50/LC50
Benzyl alcohol (100-51-6)
Inhalation LC50 Rat 8.8 mg/L 4 h; Oral LD50 Rat 1230 mg/kg; Dermal LD50 Rabbit 2000 mg/kg

Cyclohexanamine, 4,4’-methylenebis- (1761-71-3)
Inhalation LC50 Mouse 400 mg/m3 4 h; Inhalation LC50 Mouse 0.4 mg/L 4 h; Oral LD50 Rat 1000 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness
Direct or prolonged skin contact can cause burns.

Potential Health Effects: Eye Critical Damage/ Stimulativeness
Direct eye contact can cause burns.

Potential Health Effects: Ingestion
Swallowing liquid can burn mouth and cause nausea, vomiting, diarrhea, abdominal pain and collapse.

Potential Health Effects: Inhalation
Can cause respiratory reactions after repetitive exposure.

Respiratory Organs Sensitization/Skin Sensitization
Can cause allergic skin and respiratory reactions after repetitive exposure.

Generative Cell Mutagenicity
This product is not reported to have any mutagenic effects.

Carcinogenicity
A: General Product Information
This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Reproductive Toxicity
This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure
This product is not reported to have any single exposure target organ toxicity effects.

Specified Target Organ General Toxicity: Repeated Exposure
This product is not reported to have any repeat exposure target organ toxicity effects.

Aspiration Respiratory Organs Hazard
Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information
This product is not reported to have any ecotoxicity effects.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

**Benzyl alcohol (100-51-6)**

- **Test & Species**: 96 Hr LC50 Pimephales promelas
  - **Conditions**: 460 mg/L [static]
- **Test & Species**: 96 Hr LC50 Lepomis macrochirus
  - **Conditions**: 10 mg/L [static]
- **Test & Species**: 3 Hr EC50 Anabaena variabilis
  - **Conditions**: 35 mg/L
- **Test & Species**: 48 Hr EC50 water flea
  - **Conditions**: 23 mg/L

**Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)**

- **Test & Species**: 96 Hr LC50 Leuciscus idus
  - **Conditions**: 46-100 mg/L [static]

Persistence/Degradability
No information available for the product.

Bioaccumulation
No information available for the product.

Mobility in Soil
No information available for the product.

*** Section 13 - Disposal Considerations ***

**Waste Disposal Instructions**
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

**Disposal of Contaminated Containers or Packaging**
Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Section 14 - Transportation Information ***

**IATA Information**
- **Shipping Name**: Not Regulated

**ICAO Information**
- **Shipping Name**: Not Regulated

**IMDG Information**
- **Shipping Name**: Not Regulated
**Section 15 - Regulatory Information**

Regulatory Information

**EU MARKING AND LABELLING:**

**Symbol(s):**

Xn

**Risk Phrases:**

R20/22 Harmful by inhalation and if swallowed.

**Substance Analysis - Inventory**

<table>
<thead>
<tr>
<th>Component/CAS</th>
<th>EC#</th>
<th>EEC</th>
<th>CAN</th>
<th>TSCA</th>
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<tbody>
<tr>
<td>Benzyl alcohol 100-51-6</td>
<td>202-859-9</td>
<td>EINECS</td>
<td>DSL</td>
<td>Yes</td>
</tr>
<tr>
<td>Cyclohexanamine, 4,4'-methylenebis-1781-71-3</td>
<td>217-168-8</td>
<td>EINECS</td>
<td>DSL</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Section 16 - Other Information**

**Key/Legend**

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

**Literature References**

None

End of Sheet