

**MATERIAL SAFETY DATA SHEET****Section 1****Product Identification****Product Name:** Aluminum Ceramic Coating**Date Prepared:** 10/14/2009**Part Number:** 51488Z (ALK)**Formula:****Manufacturer / Supplier:****Chemical Family:**

Distributed By:

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 Dba The Eastwood Company  
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 Pottstown, PA 19464  
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**Emergency Phone:** (Chemtrec) 1-800-424-9300**Section 2****Composition / Data On Components**

Component	CAS#	% of Weight	OSHA PEL	ACGIH TLV	Sara 313
XYLENE	1330-20-7	>10%	100 PPM	100 PPM	Yes
Toluene	108-88-3	>10%	200 PPM	50 PPM	Yes
Ethylbenzene	100-41-4	>3%	100 PPM	100 PPM	Yes
ISOBUTYL ALCOHOL	78-83-1	>5%	500 PPM	50 PPM	
Mineral Spirits	8052-41-3	<10%	100 PPM	N.E.	
CRYSTALLINE SILICA	14808-60-7	>1	.1 mg/m3	.1 mg/m3	
MOLYBDENUM DISULFIDE	1317-33-5	<10	10 mg/m3	10 mg/m3	
Manganese Ferrite Spinel	68186-94-7	<1%	5.0 mg/m3 as Mn	20 mg/m3 as Mn	

NOTE: XYLENE IS CONSIDERED BY SOME AUTHORITIES TO BE A CARCINOGEN  
 Components not listed above are non-hazardous or are Trade Secrets.

**Section 3****Hazards Identification****Appearance and Odor:**

Gray Colored Liquid / Solvent Smell

**Hazard Description:**

Flammable Liquid

**Potential Health Effects:****ROUTES OF ENTRY:**

NHALATION? YES  
 SKIN? YES  
 INGESTION? YES

**TOXICITY (ACUTE AND CHRONIC)**

MOLYBDENUM COMPOUNDS MAY BE SLIGHTLY IRRITATING.

CARCINOGENICITY: NPT-NO IARC-NO OSHA-NO

CHRONIC OVEREXPOSURE TO XYLENE (CAS# 1330-20-7 ) HAS BEEN SUGGESTED TO CAUSE CARDIAC ABNORMALITIES IN HUMANS.

**HEALTH HAZARDS:**

Eyes: severe irritation, redness, tearing and blurred vision

Skin: prolonged or repeated contact can cause moderate irritation, defatting and dermatitis  
 Inhalation: excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, headache, possible unconsciousness, death  
 Ingestion: can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. aspiration of the material into the lungs can cause chemical pneumonitis which can be fatal

#### **Section 4**

##### **First Aid Measures**

###### **After EYE Contact:**

- Immediately irrigate with plenty of water for 15 minutes. Obtain medical attention if irritation persists.

###### **After SKIN Contact:**

- Remove contaminated clothing without delay. Flush skin thoroughly with water. Do not reuse clothing without laundering.

###### **After INHALATION:**

- Administer oxygen if there is difficulty in breathing. Obtain medical attention immediately if necessary.

###### **After SWALLOWING:**

- Call a physician immediately, ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

#### **Section 5**

##### **Fire Fighting Measures**

<b>Flash Point:</b> 45° F. <b>Method:</b> TCC	<b>Flammable Limits LEL-:</b> Not Established	<b>Flammable Limits UEL-:</b> Not Established	<b>Stability:</b> See Section 10
<b>Extinguishing Media:</b> FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL		<b>Special Fire Fighting Procedures:</b> USE FULL PROTECTIVE EQUIPMENT, INCLUDING SELF CONTAINED BREATHING APPARATUS	
<b>Unusual Fire And Explosion Hazards:</b> DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION			

#### **Section 6**

##### **Accidental Release Measures**

Steps to be taken in case material is released or spilled.

- Remove sources of ignition.
- Warn other workers of spill.
- Wear protective equipment
  - NIOSH Approved Respirator
  - Gloves
  - Safety Glasses
- Do not allow material to be released into the environment without proper governmental permits

Measures for cleaning / collecting:

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Additional Information:

- See Section 7 for safe handling information.
- See Section 8 for PPE information
- See Section 13 for disposal information

#### **Section 7**

##### **Handling And Storage**

###### **Handling:**

Do not breathe vapors or mists from spraying. Avoid contact with skin and eyes. Use with adequate ventilation to maintain exposure levels below established exposure limits. If required wear an appropriate NIOSH approved respirator with paint prefilter.

Vapor is harmful. May cause eye irritation, burning sensation on skin. If inhaled, may cause headache, dizziness or nausea. Contains petroleum distillate, harmful or fatal if swallowed.

###### **Storage:**

STORE IN A COOL DRY PLACE, SUITABLE FOR OSHA CLASS 1 FLAMMABLE LIQUIDS

**SECTION 8****EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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<b>Engineering Controls:</b>	Exhaust ventilation. Showers Eyewash stations Use in a well-ventilated area.
<b>Respiratory Protection:</b>	Use NIOSH approved respirator if TWA/TLV limits are exceeded
<b>Protective Gloves:</b>	CHEMICAL RESISTANT
<b>Eye Protection:</b>	SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES
<b>Other Protective Equipment:</b>	WEAR PROTECTIVE CLOTHING, CHEMICAL RESISTANT OR OTHER PROTECTIVE OUTERWEAR, AVOID CONTACT WITH SKIN OR EYES
<b>Ventilation:</b>	Local Exhaust: Use To Maintain Below TWA Limits
<b>Mechanical:</b>	Use Non-Sparking Equipment
<b>Work / Hygienic Practices:</b>	wash thoroughly after handling product and before eating, drinking or smoking

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance and Odor:</b>	COLORED LIQUID / SOLVENT SMELL
<b>Boiling Point:</b>	100°-355° F.
<b>Vapor Density (Air = 1):</b>	<1
<b>Vapor Pressure:</b>	Not Established
<b>Melting Point:</b>	Not Applicable
<b>Solubility in Water:</b>	POOR
<b>Reactivity in Water:</b>	None
<b>VOC's:</b>	As Blended 750 GRAMS/L

**SECTION 10****STABILITY AND REACTIVITY**

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<b>Stability:</b>	STABLE
<b>Incompatibility (Materials to Avoid):</b>	CONTACT WITH STRONG OXIDIZING AGENTS, ACIDS OR BASES
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide and Unidentified Organics may be formed, Chlorine and Fluorine containing gases can be produced
<b>Hazardous Polymerization:</b>	WILL NOT OCCUR
<b>Conditions to Avoid:</b>	Avoid contact with Oxidizing Agents, Sparks or Flame

**SECTION 11****TOXICOLOGICAL INFORMATION**

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<b>Effects on Eyes:</b>	Severe Irritation, Redness, Tearing and Blurred Vision. Contact Lenses Pose A Special Hazard; Soft Lenses May Absorb, All Lenses Concentrate Irritants
<b>Effects on Skin:</b>	Prolonged Or Repeated Contact Can Cause Moderate Irritation, Defatting And Dermatitis
<b>Effects from Inhalation:</b>	Excessive Inhalation Of Vapors Can Cause Nasal And Respiratory Irritation, Dizziness, Headache, Possible Unconsciousness, Death
<b>Effects from Swallowing:</b>	Can Cause Gastrointestinal Damage, Irritation, Nausea, Vomiting, And Diarrhea. Aspiration Of The Material Into The Lungs Can Cause Chemical Pneumonitis Which Can Be Fatal

**SECTION 12****ECOLOGICAL INFORMATION**

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<b>General Comments:</b>	Do not allow material to be released into the environment without proper governmental permits
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**SECTION 13****DISPOSAL CONSIDERATIONS**

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**Waste Disposal Method:**

Disposal should be made in accordance with federal, state and local regulations. Recovered non-usable material is a RCRA hazardous waste. Treatment, storage, transportation and disposal must be in accordance with EPA and State regulation under the authority of the Resource Conservation and Recovery Act (RCRA) 40 CFR parts 260-271  
A competent and properly permitted contractor should do appropriate disposal.

**SECTION 14****TRANSPORTATION INFORMATION**

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<b>Hazardous for Shipping:</b>	Yes (ORM-D for quarts and smaller ground)
<b>DOT Shipping Name:</b>	Paint
<b>DOT Hazard Class:</b>	Class 3

**DOT Labels:** Flammable Liquid  
**UN Number:** UN1263  
**Placards:** Flammable Liquid  
**Packing Group:** Packing Group II  
**Air (IATA):** Paint, Class 3, Flammable Liquid UN1263, Packing Group II  
**Sea (IMDG):** Paint, Class 3, Flammable Liquid UN1263, Packing Group II

## SECTION 15 REGULATIONS

### Information about Limitation or Use:

### Other Regulations, Limitations, and Prohibitive Regulations:

**TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:** All ingredients are on the TSCA Chemical Substance Inventory.

### Product Related Hazard Information:

**Hazard Symbols:** Flammable Liquid

**Risk Phrases:** Flammable Liquid

**Safety Phrases:** Flammable Liquid

### National Regulations:

Canada:

WHMIS Hazard Class: B3

### Other Regulations, Limitations, and Prohibitive Regulations:

OSHA Status.....: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200

TSCA Status.....: Components on TSCA Inventory or are not required to be listed on the TSCA Inventory

CERCLA Reportable Quantity.....: None.

### SARA Title III:

Section 302 Extremely Hazardous Substances.: None.

Section 311 / 312 Hazard Categories.....: Chronic Health Hazard; Acute Health Hazard

Section 313 Toxic Chemicals.....: Manganese Ferrite Spinel; 1-Methyl-2-pyrrolidone (NMP)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Component Name	CAS Number	Concentration	State Code
Manganese Ferrite Spinel	68186-94-7	<1%	PA1, NJ1
Barium	7440-39-3	< 0.0083% *	NJ1, NJ2
Arsenic	7440-38-2	< 0.00041% *	CA, MA
Cadmium	7440-43-9	< 0.000008% *	CA, MA
Chromium	7440-47-3	< 0.000827% *	PA1
Mercury	7439-97-6	< 0.000004% *	CA
Lead	7439-92-1	< 0.000083% *	CA
XYLENE	1330-20-7	>10%	PA1, MA, NJ1
n-BUTANOL	71-36-3	< 5%	PA1, MA, NJ1
Toluene	108-88-3	>10%	CA, MA, NJ1, PA1
Ethylbenzene	100-41-4	>3%	MA, NJ1, PA1
Dimethyl,diphenyl, methyl, phenyl silicone resin	28630-33-3	<30%	NJ1, PA1

CA = Warning! This Chemical is known to the State of California to cause cancer and/or birth defects and/or other reproductive harm.

MA = Massachusetts Hazardous Substance List

MA1 = Massachusetts RTK List

NJ1 = New Jersey Hazardous Substance List

NJ2 = New Jersey RTK Special Hazardous Substance List

NJ4 = New Jersey Other – included in 5 predominant ingredients > 1%

PA1 = Pennsylvania Hazardous Substance List

PA2 = Pennsylvania RTK List

\* Please note that these were random sample analyses and content may vary from batch to batch.

## SECTION 16 OTHER INFORMATION

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