MATERIAL SAFETY DATA SHEET

Section 1
Product Identification

Product Name: Colorgard Titanium

Date Prepared: 10/14/2009

Part Number: 51493Z (TIK)

Formula:

Manufacturer / Supplier:
Distributed By:
The Easthill Group
Dba The Eastwood Company
263 Shoemaker Rd.
Pottstown, PA 19464
USA & Canada: 1-800-345-1178
Outside USA: (610) 323-2200

Chemical Family:

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	>10%	500 PPM	50 PPM	
COPPER CHROMITE BLACK SPINEL	68186-91-7	<30%	1.0 mg/m3	1.0 mg/m3	Yes
Nickel Antimony Titanium Yellow Rutile	8007-18-9	<10%	0.5 mg/m3	0.5 mg/m3	
ETHANOL	064-175	<1%	1900 PPM	1000 PPM	
CRYSTALLINE SILICA	14808-60-7	>1%	.1 mg/m3	.1 mg/m3	

FILLERS TRADE SECRET
(Specific ingredients are not listed. Full information is available to qualified medical personnel)

The metallic portion of the formula is made through the alloying of a variety of materials. The alloy does not have the properties of the individual ingredients that make up the alloy. Certain hazardous components of the alloy are listed

Ingredient	CAS #	0%	ACHIG OSHA TLV-TWA	ECC PEL-TWA	ECC Symbols	ECC R-phase
Chromium	7440-47-3	16-18	0.5 mg/m3	1 mg/m3	Ti,Xi	25,36/37/38, 43
Nickel	7440-47-0	10-14	1 mg.m3	1 mg.m3	Carc.Cat1	45.10,25,
Silicon	7440-21-3	<1	10 mg/m3	10:5 mg/m3	F	10

Note: "Total dust" and "Respirable Fraction" OSHA PEL values are listed for Silicon. NOTE: The National Toxicology program lists nickel, chromium and certain chromium compounds to be carcinogenic. **This alloy does not contain any Hexavalent Chromium**

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:

INHALATION? 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

Flash Point: 94° F. **Method:** TCC	**Flammable Limits LEL-:** Not Established	**Flammable Limits UEL-:** Not Established	**Stability:** See Section 10
Extinguishing Media: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL		**Special Fire Fighting Procedures:** USE FULL PROTECTIVE EQUIPMENT, INCLUDING SELF CONTAINED BREATHING APPARATUS	
Unusual Fire And Explosion Hazards: 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:

-

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

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

SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10
STABILITY AND REACTIVITY

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

SECTION 11
TOXICOLOGICAL INFORMATION

Effects on Eyes:	Severe Irritation, Redness, Tearing and Blurred Vision. Contact Lenses Pose A Special Hazard; Soft Lenses May Absorb, All Lenses Concentrate Irritants
Effects on Skin:	Prolonged Or Repeated Contact Can Cause Moderate Irritation, Defatting And Dermatitis
Effects from Inhalation:	Excessive Inhalation Of Vapors Can Cause Nasal And Respiratory Irritation, Dizziness, Headache, Possible Unconsciousness, Death
Effects from Swallowing:	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

General Comments: Do not allow material to be released into the environment without proper governmental permits

SECTION 13
DISPOSAL CONSIDERATIONS

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

Hazardous for Shipping: **Yes (ORM-D for quarts and smaller ground)**

DOT Shipping Name: Paint
DOT Hazard Class: Class 3
DOT Labels: Flammable Liquid
UN Number: UN1263
Placards: Flammable Liquid
Packing Group: Packing Group III
Air (IATA): Paint, Class 3, Flammable Liquid UN1263, Packing Group III
Sea (IMDG): Paint, Class 3, Flammable Liquid UN1263, Packing Group III

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……...: 1-Methyl-2-pyrolidone (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
Toluene	108-88-3	>10%	CA, MA, NJ1, PA1
Ethylbenzene	100-41-4	>3%	MA, NJ1, PA1
XYLENE	1330-20-7	>10%	PA1, MA, NJ1
n-BUTANOL	71-36-3	< 5%	PA1, MA, NJ1
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

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATION, INDUCEMENT OR LICENSE OF ANY KIND, EXCEPT THAT IT IS ACCURATE TO THE BEST OF TECH LINE COATINGS, INC., KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY TECH LINE COATINGS, INC. TO BE ACCURATE, AND TECH LINE COATINGS, INC., DOES NOT ASSUME ANY LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON SAME. BEFORE USING ANY CHEMICAL, READ ITS LABEL, INSTRUCTIONS AND MATERIAL SAFETY DATA SHEET.