



SAFETY DATA SHEET

Section 1 – Identification

Product Identifier: ColorGard Titanium

Part Number: TIK

Recommended Use: Exhaust and High Temperature

Restrictions on Use: Coating

Manufacturer / Supplier:

Keep out of reach of children.

Tech Line Coatings Industries, Inc

Not recommended for use on Medical equipment.

PO Box 668, 10840 Chapmany Hwy Unit A

Not recommended for use on Aviation equipment.

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Section 2 – Hazards Identification

Signal Word:

Danger

Symbols:



Hazard Statements:	GHS Classification:	Category
Flammable liquid and vapor	Flammable Liquid	3
Harmful if inhaled	Acute Toxicity Dermal	4
Causes skin Irritation	Acute Toxicity Inhalation	4
Causes Serious Eye irritation	Skin Irritation	2
Suspected of causing genetic defects	Eye Damage	2
Suspected of causing cancer	Germ Cell Mutagenicity	2
	Carcinogenicity	2

**Precautionary Statements:**

Keep away from heat / sparks / open flames / hot surfaces. - No Smoking. Ground / bond container and receiving equipment. Use explosion proof electrical / ventilating / lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

In case of fire use alcohol-resistant foam, dry chemical or carbon dioxide

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Wear protective gloves / protective clothing (chemical proof). Wear eye protection and face protection. Wash hands, face and any exposed skin thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat drink or smoke when using this product. Do not breath fumes / mist / vapors / spray. Use only outdoors or in a well ventilated area.

If swallowed: immediately call a poison center / doctor for medical advice. Do NOT induce vomiting.

If on skin: wash with plenty of water. Call a poison center / doctor if you feel unwell or if irritation occurs. Immediately take off all contaminated clothing and wash it before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center / doctor for medical advice.

If in eyes: Rinse cautiously in water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison control center / doctor.

If exposed or concerned: Get medical advise / attention, from a poison center / doctor.

Dispose of Contents / container in accordance with regulations in your area. See section 13 for additional information.

Section 3 – Composition / Information On Ingredients

Component Name	Common Name / Synonyms	CAS#	% of Weight
Xylene		1330-20-7	< 26%
Isobutyl Alcohol	Isobutanol	78-83-1	< 11%
Toluene		108-88-3	< 10%
Copper chromite black spinel	C.I. Pigment Black 28	68186-91-7	< 8%
Nickel Antimony Titanium Yellow Rutile		8007-18-9	< 3%
Ethyl benzene		100-41-4	< 5%

Trade secret fillers \*\*

\*\*Trade secret fillers information will be provided to qualified medical or regulatory personnel on request.

Other ingredients are not hazardous based on OSHA standard Section 29 CFR 1910.1200

Section 4 – First Aid Measures

**General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water, and remove contaminated clothing shoes and leather goods. Consult a physician..

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	Special Fire Fighting Procedures: Wear self contained breathing apparatus for fire fighting if necessary.
Unusual Fire And Explosion Hazards: Hazardous decomposition products formed under extreme fire conditions. - Carbon and other oxides. Vapors are heavier than air and may travel to a source of ignition and flash back.	Additional Information: Use water spray to cool unopened containers.

Section 6 – Accidental Release Measures

Methods for Containment and Clean Up

- Soak up with inert absorbent material.
- Keep in suitable, marked and closed containers for disposal.
- Use spark-proof tools and explosion-proof equipment.
- 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.

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. Wear personal protective equipment. If required wear an appropriate NIOSH approved respirator with paint prefilter. Use explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Storage:

Store in area suitable for flammable liquids. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

Section 8 – Exposure Controls And Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH REL
Xylene	TLV: 100 ppm TWA: 150 ppm	TWA: 100 ppm	100 ppm 10 hour shift 200 ppm 10 minutes
Isobutyl Alcohol	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm
Toluene	TWA: 50 ppm	TWA: 300 ppm	STEL: 150 ppm TWA: 100 ppm
Copper chromite black spinel	No data available	No data available	No data available
CHROMIUM (III) AND COMPOUNDS	0.5 mg/m3	0.5 mg/m3	No data available

COPPER DUSTS AND MISTS	1 mg/m3	1 mg/m3	No data available
Nickel Antimony Titanium Yellow Rutile	No data available	No data available	No data available
ANTIMONY AND COMPOUNDS	0.5 mg/m3	0.5 mg/m3	No data available
NICKEL METAL AND INSOLUBLE COMPOUNDS	0.2 mg/m3	1 mg/m3	No data available
Ethyl benzene	TLV: 100 ppm TWA: 125 ppm	TWA: 100 ppm	TWA: 100 ppm

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

Form : liquid

Color : Medium gray

Odor : Mixture of Solvents

Odor Threshold: Not Established

pH : No data available

Melting point/range : No data available

Initial boiling point : > 150° F.

Flash point : > 94° F.

Evaporation Rate: No data available on mixture

Upper/lower flammability or explosive limits: No data available on mixture

Vapor pressure No data available on mixture

Vapor density > 1 - (air =1)

Relative density No data available on mixture

Solubility(ies) No data available on mixture

Partition coefficient: n-octanol/water No data available on mixture

Auto-ignition temperature No data available on mixture

Decomposition temperature No data available on mixture

Viscosity < 19 centistokes at 100° F.

Total VOC < 597 g/l

Section 10 – Stability And Reactivity

Stability: STABLE

Possibility of hazardous reactions: Hazardous Polymerization: Will not occur.

Conditions to avoid: Avoid storage of open containers at elevated temperatures. Heat, flames and sparks, direct sunlight.

Incompatible Materials: Oxidizing material can cause a reaction.

Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silicon dioxide. Carbon oxides. Metal oxides. Formaldehyde.

Section 11 – Toxicological Information

Potential Health Effects

Inhalation	Harmful if inhaled.
Ingestion	May be fatal if swallowed and enters airways
Skin	Harmful in contact with skin. Causes skin irritation.
Eyes	Causes Serious Eye Irritation

Acute Toxicity

Xylene	Oral LD50	mouse: LD50 = 2119 mg/kg rat: LD50 = 4300 mg/kg
	Inhalation LC50	rat: LC50 = 5000 ppm/4H
	Dermal LD50	rabbit: LD50 = >1700 mg/kg
Isobutyl Alcohol	Oral LD50	LD50 Oral - rat - 2,460 mg/kg LD50 Oral - rat - 2,500 - 6,400 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - 4 h - 8000 ppm
	Dermal LD50	LD50 Dermal - rabbit - 3,400 mg/kg LD50 Dermal - rabbit - 4,240 mg/kg
	Other information on acute toxicity	LD50 Intraperitoneal - mouse - 544 mg/kg LD50 Intravenous - mouse - 417 mg/kg LD50 Intraperitoneal - rabbit - 323 mg/kg LD50 Intraperitoneal - guinea pig - 1,201 mg/kg LD50 Intraperitoneal - Hamster - 1,401 mg/kg
Toluene	Oral LD50	LD50 Oral - rat - > 5,580 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m3
	Dermal LD50	LD50 Dermal - rabbit - 12,196 mg/kg
Copper chromite black spinel	Oral LD50	LD50 Rat: > 10000 mg/kg
	Inhalation LC50	LD50 Rat: > 11.1 mg/l
	Dermal LD50	No data available
Nickel Antimony Titanium Yellow Rutile	Oral LD50	LD50 Rat: >= 10000 mg/kg
	Inhalation LC50	No data available
	Dermal LD50	No data available

Ethyl benzene	Oral LD50	No data available
	Inhalation LC50	No data available
	Dermal LD50	LD50 Dermal - rabbit - 15,433 mg/kg

Skin Corrosion/Irritation

Isobutyl Alcohol

Skin - guinea pig - Mild skin irritation

Toluene

Skin - rabbit - Skin irritation - 24 h

Serious Eye Damage/Eye Irritation

Isobutyl Alcohol

Eyes - rabbit - Remarks: Moderate eye irritation

Respiratory Or Skin Sensitization

Isobutyl Alcohol Dermatitis

Germ Cell Mutagenicity

Toluene

Genotoxicity in vitro - rat - Liver

DNA damage

Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene)  
3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene, Xylene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

This product contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Isobutyl Alcohol

Carcinogenicity - rat - Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors. Leukaemia

Carcinogenicity - rat - Subcutaneous

Tumorigenic: Carcinogenic by RTECS criteria. Gastrointestinal: Tumors. Liver: Tumors.

Reproductive Toxicity

No data available

Specific Target Organ Toxicity Single Exposure

Isobutyl Alcohol

Inhalation - May cause respiratory irritation.

May cause drowsiness or dizziness. Toluene

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Damage to fetus possible

Suspected human reproductive toxicant

Specific Target Organ Toxicity Repeated Or Prolonged Exposure No data available

Aspiration Hazard No  
Data

Further information:

Fillers used in this product are the result of high temperature calcination of the component substances. Due to their unique crystalline structure the properties of this finished fillers do not necessarily reflect the properties of the component metals or oxides.

Section 12 – Ecological Information

General Comments:

Do not allow material to be released into the environment without proper governmental permits Environmental

Toxicity:

Xylene

Toxicity to fish	Rainbow trout: LC50 = 13.5 mg/L; 96 Hr; Unspecified Goldfish: LD50 = 13 mg/L; 24 Hr; Unspecified Fathead Minnow: LC50 = 46 mg/L; 1 Hr
Toxicity to daphnia and other aquatic invertebrates	No data available

Toluene

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 74.00 - 340.00 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d LOEC - Pimephales promelas (fathead minnow) - 8.04 mg/l - 7 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h
Toxicity to algae	EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h

Isobutyl Alcohol

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) – 1.220 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	No Data Available
Toxicity to algae	No Data Available

Copper chromite black spinel

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available

Nickel Antimony Titanium Yellow Rutile

Toxicity to fish	LC50 Leuciscus idus: 10000 mg/l 96 h LC50 Oryzias latipes: > 1 mg/l 96 h NOEC Leuciscus idus: > 10000 mg/l 96 h
Toxicity to daphnia and other aquatic invertebrates	EC0 Daphnia: 100 mg/l 48 h EC10 Pseudomonas putida: 5680 mg/l 30 mi EC50 Daphnia: > 1 mg/l 48 h EC50 Daphnia: > 100 mg/l 48 h EC50 Daphnia: > 100 mg/l 48 h EC50 Pseudomonas putida: > 10000 mg/l 30 min ErC10 Desmodemus subspicatus: > 100 mg/l 72 h

Toxicity to algae

EbC10 *Desmodesmus subspicatus*: 64.1 mg/l 72 h  
 EbC50 *Desmodesmus subspicatus*: > 100 mg/l 100 h  
 EbC50 *Selenastrum capricornutum*: > 72 mg/l 72 h  
 ErC50 *Desmodesmus subspicatus*: > 100 mg/l 72 h  
 ErC50 *Selenastrum capricornutum*: > 1 mg/l 72 h  
 NOEC *Desmodesmus subspicatus*: 25 mg/l 72 h  
 NOEC *Selenastrum capricornutum*: > 1 mg/l 72 h

Ethylbenzene

Toxicity to fish

LC50 - *Cyprinodon variegatus* (sheepshead minnow) - 88.00 mg/l - 96 h  
 LC50 - *Lepomis macrochirus* (Bluegill) - 80.00 mg/l - 96 h  
 NOEC - *Cyprinodon variegatus* (sheepshead minnow) - 88 mg/l - 96 h  
 LC50 - *Oncorhynchus mykiss* (rainbow trout) - 4.2 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - *Daphnia magna* (Water flea) - 2.90 mg/l - 48 h

Section 13 – Disposal Considerations

Waste Disposal Method:

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes Characteristic Waste:

Ignitable: D001

TCLP: D018

State or local laws may impose additional regulatory requirements regarding disposal.

Contaminated Packaging

Dispose of as unused product.

Section 14 – Transportation Information

Hazardous for Shipping: Yes

Based on 49 CFR, IATA and IMDG:

UN Number: UN1263

UN Proper Shipping Name: Paint

Hazard Class: 3

Packing Group: III

Labels: Flammable Liquid

Placards: Flammable Liquid

Section 15 – Regulations

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

Component	%	CAS Number	SARA 313	SARA 302	New Jersey RTK List	Pennsylvania RTK List	Massachusetts RTK List	California Prop 65 list
Xylene	< 26%	1330-20-7	Yes	Yes	Yes	Yes	Yes	No
Dimethyl, diphenyl, methyl, phenyl silicone resin	< 25%	28630-33-3	No	No	Yes	Yes	No	No
Isobutyl Alcohol	< 11%	78-83-1	No	No	Yes	Yes	Yes	No



Toluene	< 10%	108-88-3	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl benzene	< 5%	100-41-4	Yes	No	Yes	Yes	Yes	Yes
Copper chromite black spinel	< 8%	68186-91-7	See below					
100% CHROMIUM COMPOUND.			Yes	No	No	No	No	No
100% COPPER COMPOUND			Yes	No	No	No	No	No
Nickel Antimony Titanium Yellow Rutile	< 3%	8007-18-9	See below					
100% NICKEL COMPOUND			Yes	No	No	No	No	Yes
100% ANTIMONY COMPOUND.			Yes	No	No	No	No	Yes

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

SARA 311 / 312 Hazards: Flammable Hazard ,Acute Health Hazard, Chronic Health Hazard

Section 16 – Other Information

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