

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - MANUFACTURER INFORMATION

### PRODUCT NAME

Ceramic InsulCoat Roof

### PRODUCT NUMBER

EC-1010-20

### DATE OF PREPARATION

9/15/2017

### MANUFACTURER'S NAME

Envirocoat Technologies, Inc.  
5730 Production Way  
Langley, British Columbia  
V3A 4N4

**PRODUCT INFORMATION:** (604) 532-6090

**EMERGENCY TELEPHONE:** (604) 532-6090

## SECTION 2 - HAZARDOUS INGREDIENTS

Ingredient	CAS Number	Weight % (max)	Units	Vapor Pressure
Titanium Dioxide	13463-67-7	22		
			ACGIH TLV	10 mg/m <sup>3</sup> as Dust
			OSHA PEL	10mg/m <sup>3</sup> Total Dust
			OSHA PEL	5 mg/m <sup>3</sup> Respirable Fraction

## SECTION 3 - HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECT OF OVEREXPOSURE

**EYES:** Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

### HMIS CODES

Health	1*
Flammability	0
Reactivity	0

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

## SECTION 4 - FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected areas thoroughly with soap and water.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## **SECTION 5 - FIRE FIGHTING MEASURES**

### **FLASH POINT**

Not Applicable

### **LEL**

Not Applicable

### **UEL**

Not Applicable

### **FLAMMABILITY CLASSIFICATION**

Not Applicable

### **EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Alcohol Foam

### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode (due to build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### **SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition when exposed to extreme heat.

## **SECTION 6 - ACCIDENTIAL RELEASE MEASURES**

### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

## **SECTION 7 - HANDLING AND STORAGE**

### **STORAGE CATEGORY**

Not applicable

### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Keep container closed when not in use. Keep from freezing. Transfer to containers with complete and appropriate labeling. Do not take internally. Keep out of reach of children.

## **SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

### **PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed as "Dust" in Section 2) which may be present at hazardous levels during sanding or abrading of the dry film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### **RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted

organic vapor/particulate respirator approved ny NIOSH/MSHA for protection against materials in Section 2.

**PROTECTIVE GLOVES**

Required for long or repeated contact.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**SECTION 9 - PHYSICAL AND CHEMICAL PEOPERTIES**

<b>PRODUCT WEIGHT</b>	11.0 lb/gal	
<b>SPECIFIC GRAVITY</b>	1.41	
<b>BOILING POINT</b>	>212° F	>100° C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	33%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	Not Available	
<b>pH</b>	Not Available	
<b>VOLATILE ORGANIC COMPOUNDS (VOC)</b>		
<b>VOC Regulatory Limit (g/l)</b>	42.0 g/l	

**SECTION 10 - STABILITY AND REACTIVITY**

**STABILITY** --- Stable

**CONDITIONS TO AVOID** - None known.

**INCOMPATIBILITY** - None known.

**HAZARDOUS DECOMPOSITION PRODUCTS** - By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION** - Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**CHRONIC HEALTH HAZARDS**

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

**TOXICOLOGY DATA**

<b>Ingredient Name</b>	<b>CAS Number</b>			
<b>Titanium Dioxide</b>	<b>13463-67-7</b>	LC50 RAT	4HR	Not Available
		LD50 RAD		Not Available

**SECTION 12 - ECOLOGICAL INFORMATION**

No data available.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD**

Waste disposal should be in accordance with existing Federal, State/Provincial and Local environmental control laws. Incineration is the preferred method. Incinerate in approved facility. Do not incinerate closed container.

**CALIFORNIA ONLY**

Considered Non-RCRA Hazardous Waste.

**SECTION 14 - TRANSPORTATION INFORMATION**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

**US GROUND (DOT)**

Not regulated for Transportation.

**CANADA (TDG)**

Not regulated for Transportation.

**IMO**

Not regulated for Transportation.

**IATA/ICAO**

Not regulated for Transportation.

**SECTION 15 - REGULATORY INFORMATION**

**OSHA HAZARDOUS** - No

**SARA 311/312 HAZARDOUS CATEGORIZATION**

**ACUTE HEALTH HAZARD** - No

**CHRONIC HEALTH HAZARD** - Yes

**FIRE HAZARD** - No

**SUDDEN RELEASE OF PRESSURE** - No

**REACTIVE HAZARD** - No

**SARA 313** - Refer to Section 3

**CALIFORNIA PROPOSITION 65**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm at levels less than required for reporting (<0.1%) unless listed in Section 3.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 - OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**The above information pertains to this product as currently formulated, and is based on information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of this product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.**