

Material Safety Data Sheet

Section 1- Product and Company Identification

Product Name

Reflective Roof Technology

Manufacturer's Name

Invisaflects

4516 Ozark St. NE Cedar Rapids Iowa 52402

Telephones and website

Product, Regulatory, Transportation, and Medical call 319-929-9915

WWW.Invisaflects.com

Sections 2- Composition/Information

% by Weight	CAS Number	Ingredient	Units
0.1	14808-60-7	Quartz	
		ACGIH TLV	0.025 mg/m ³ as Resp. Dust
		OSHA PEL	0.1 mg/m ³ as Resp. Dust
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4	13463-67-7	Titanium Dioxide	
		ACGIH TLV	10mg/m ³ as Dust
		OSHA PEL	10mg/m ³ Total Dust
		OSHA PEL	5mg/m ³ 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

Effects of Overexposure

Eyes: Irritation

Skin: Prolonged or repeated exposure may cause irritation.

Inhalation: Irritation of the upper respiratory system.

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

Cancer Information: For complete discussion of toxicology data refer to section 11.

HMIS CODES	
Health	1*
Flammability	0
Reactivity	0

Section 4 First Aid Measures

Eyes: Flush eyes with large amounts of water for 15 minutes. Get Medical attention.

Skin: Wash affected area 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	LEL	UEL	Flammability Classification
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Not Applicable	NOT	NOT	Not Applicable
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Extinguishing Media

Carbon Dioxide, Dry Chemical, Alcohol Foam

Unusual Fire and Explosion Hazards

Closed containers may explode (due to the buildup 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 auto ignition or explosion when exposed to extreme heat.

Section 6 Accidental Release Measures

Steps to be taken in case material is released or spilled

Remove all source 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 the container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of reach of children.

Section 8 Exposure Controls/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 only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits of nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (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 a 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 United States) 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 by NIOSH/MSHA for protection against materials in Section 2. When Sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Protective Gloves

Required for long or repeated contact

Eye Protection

Wear safety glasses with unperforated side shields.

Section 9 Physical and Chemical Properties

Product Weight	11.09 lb/gal
Specific Gravity	1.33
Boiling Point	212-213 F 100-100 C
Melting Point	NA
Volatile Volume	55%
Evaporation Rate	Slower Than Ether
Vapor Density	Heavier Than Air
Solubility in Water	NA
Ph	>2.0, <11.5

Volatile Organic Compounds(VOC Theoretical-as packaged)

.17 lb/gal 20g/l

.07 lb/gal 9 g/l

Section 10 Stability and Reactivity

Stability- Stable

Conditions to Avoid

None

Incompatibility

None

Hazardous decomposition products

By fire: Carbon Dioxide, Carbon Monoxide

Hazardous Polymerization

Will not occur

Section 11 Toxicological Information

Chronic Health Hazards

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer. IARC's Monograph NO. 93 reports there is sufficient evidence of carcinogenicity in experiment rates 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 is bound to other materials, such as paint.

Toxicology Data

CAS No.	Ingredient Name			
14808-60-7	Quartz	LCR RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

Section 12 Ecological Information

Ecotoxicological Information

No data available

Section 13 Disposal Considerations

Waste Disposal Method

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and local authorities regarding pollution and waste.

Section 14 Transport Information

Multi-modal shipping description are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport does not indicate that the product is packaged suitably for that mode of transport. Use appropriate care and caution for any shipment. All packaging must be reviewed for suitability prior to shipping. Compliance to local and international regulations is the responsibility of the shipper and not the manufacturer.

US Ground (DOT)

Not Regulated for Transportation

DOT (Dept. of Transportation) Hazardous Substances and Reportable Quantities

Carbendazim 10 lb RQ

Canada (TDG)

Not Regulated for Transportation

IMO

Not Regulated for Transportation

IATA/ICAO

Not Regulated for Transportation

Section 15 Regulatory Information

SARA 313 (40 CFR 372.65C) Supplier Notification

CAS No.	Chemical Compound	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40CFR 372.65C) Supplier Notification.

California Proposition 65

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA Certification

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