

Safety Data Sheet

Section 1. Identification

GHS product Identifier : RD6® UV Overcoat
Other means of identification : Not available

Relevant identified used of the substance or mixtures and uses advised against

RD-6 UV Overcoat™ is a single component, low VOC UV resistant, water-based liquid coating. It protects against degradation of the RD-6 anticorrosion coating caused by harmful UV rays resulting from direct exposure to sunlight.

Supplier's details Polyguard Products, Inc.
 4101 South Interstate 45
 Ennis, TX 75119
 Tel: (214) 515-5000

Emergency telephone number) with hours of operation) CHEMTREC, US 1-800-424-9300 International 1-703-527-3887 (24/7)

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazardous Communications Standard (49CFR1910.1200) , this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified

GHS label elements

Signal word : No signal word
Hazard statement : No known significant effects or critical hazards.
Precautionary statements
Prevention : Not applicable
Response : Not applicable
Storage : Not applicable
Disposal : Not applicable
Hazards not otherwise classified None known

Section 3. Composition/information on ingredients

Substance/Mixture : Mixture
Other means of identification : Not available
CAS number/other identifiers
CAS number : Not applicable
Product code : Not applicable

Ingredient name	%	CAS Number
Titanium Dioxide	20-25	13463-67-7
Calcium Carbonate	13-18	1317-65-3
Water and other proprietary ingredients	75-80	Proprietary

Note: The titanium dioxide is inextricably bound in the coating matrix so the carcinogen classification does not apply. The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures.

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air. If irritation or other symptoms persist, get medical attention.
- Skin contact** : Take off immediately all contaminated clothing. Rinse skin with soap and water. If skin irritation occurs: Get medical attention. Launder clothing before re-use.
- Ingestion** : If swallowed, give water to dilute. Do not induce vomiting. If irritation or discomfort occurs, get medical attention.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : May cause mild eye irritation.
- Inhalation** : No information available.
- Skin contact** : May cause skin irritation.
- Ingestion** : No information available.

Most important symptoms/effects, acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
Pain or irritation, watering, redness
- Inhalation** : No effects
- Skin contact** : Adverse symptoms may include the following:
Irritation, redness
- Ingestion** : No known effects.

Indication of immediate medical attention and special treatment needed, if necessary.

- Notes to physician:** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment
- Protection of first-aiders:** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing the aid to give mouth-to-mouth resuscitation.

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire. Cool fire exposed containers with water.
- Unsuitable extinguishing media** : No information available.
- Specific hazards arising from the chemical** : Combustion may yield oxides of carbon and unidentified organic compounds.
- Hazardous thermal decomposition products** : No information available.
- Special protective equipment** : No information available.
- Special protective actions for fire fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in a positive pressure mode. Do not allow runoff from firefighting to enter drains or water courses. Decontaminate equipment and protective clothing before reuse.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures.

For non emergency personal : Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

Environmental precautions : Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up

Spill : Stop leak if without risk. Move container from spill area. Approach release from upwind. Prevent entry into sewers, water courses. Contain and collect spillage with absorbent material and place in container for disposal per local regulations. Dispose of via a licensed waste disposal contractor. See Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure-obtain special instructions before use. Do not handle until safety precautions have been read and understood. Do not get in eyes or on the skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in original container or an approved alternative made from compatible material, kept tightly closed when not in use.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well-ventilated area and food and drink. Store locked up. Keep container tightly closed and sealed until ready to use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium Dioxide	TWA OSHA PEL (total dust)- 15 mg/m ³ TWA ACGIH TLV- 10 mg/m ³
Calcium Carbonate	TWA OSHA PEL (total dust)- 15 mg/m ³ TWA OSHA PEL (respirable fraction)- 5 mg/m ³

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Section 8. Exposure controls/personal protection

Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Hygiene measure:	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the work station location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when risk assessment indicates this is necessary to avoid exposure to liquid splashes. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Safety glasses with side shields or chemical splash goggles.
Skin Protection	
Hand protection	: Chemical- resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid
Color	: White
Odor	: Slight acrylic odor
Odor threshold	: Not available
pH	: 8.5
Melting point	: No applicable
Boiling point	: Not available
Flash Point	: Not applicable
Evaporation rate:	: Not available
Flammability (solid, gas)	: Not applicable
Lower & upper explosive (flammable) limits	: Lower : Not applicable Upper: Not applicable
Vapor density	: Not available
Vapor pressure	: Not available
Relative density	: 1.54
Solubility	: partly soluble in water
Partition coefficient: n-octanol/water	: Not available
Auto- ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available

Section 10. Stability and reactivity

Reactivity	: None known
Chemical stability	: This product is stable.
Possibility of hazardous reactions	: None known
Conditions to avoid:	: Avoid contact with excessive heat. Keep from freezing.
Incompatible materials	: None known
Hazardous decomposition products	: Thermal decomposition may produce oxides of carbon and unidentified organic compounds.

Section 11. Toxicological information

Information on toxicological effects

<u>Acute toxicity</u>	: None known
<u>Irritation/Corrosion</u>	
<u>Eye contact</u>	: May cause mild irritation. Prolonged contact with the liquid may cause bonding of the eyelids.
<u>Inhalation</u>	: May cause dryness and irritation to mucous membranes, nose and throat. Symptoms may include coughing, sore throat and wheezing.
<u>Skin contact</u>	: May cause mild irritation. Product will bond to skin.
<u>Ingestion</u>	: Ingestion is unlikely. Contact with mouth may cause product to bond to lips, tongue and inner mouth.
<u>Sensitization</u>	
<u>Skin</u>	: There is no data available
<u>Respiratory</u>	: There is no data available
<u>Mutagenicity</u>	: There is no data available
<u>Carcinogenicity</u>	: There is no data available
<u>Classification</u>	
<u>Reproductive toxicity</u>	: No adverse effects are expected.
<u>Teratogenicity</u>	: There is no data available
<u>Specific target organ toxicity (single exposure)</u>	: No information available
<u>Specific target organ toxicity (repeated exposure)</u>	: No information available
<u>Aspiration hazard</u>	: No information available
<u>Information on the likely routes of exposure</u>	: Routes of entry anticipated: Dermal, inhalation, eye contact.
<u>Potential acute health effects</u>	
<u>Eye contact</u>	: May cause mild irritation.
<u>Inhalation</u>	: May cause dryness and irritation to mucous membranes, nose and throat.
<u>Skin contact</u>	: May cause mild irritation.
<u>Ingestion</u>	: No data available
<u>Symptoms related to the physical, chemical and toxicological characteristics</u>	
<u>Eye contact</u>	: Adverse symptoms may include the following: Pain or irritation, watering, and redness.
<u>Inhalation</u>	: Adverse symptoms may include the following: Respiratory irritation
<u>Skin contact</u>	: Adverse symptoms may include the following: Irritation or redness.
<u>Ingestion</u>	: Adverse symptoms may include the following: None

Section 11. Toxicological information

Delayed and immediate effects and chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards

Potential delayed effects : No known significant effects or critical hazards

Long term exposure

Potential immediate effects : No known significant effects or critical hazards

Potential delayed effects : No known significant effects or critical hazards

Potential chronic health effects

General : No known significant effects or critical hazards

Carcinogenicity : Titanium dioxide is classified by IARC as a suspected carcinogen (Group 2B). Titanium dioxide causes cancer only by inhalation of respirable particles. The titanium dioxide is bound in the product matrix and no inhalation exposure will occur during the handling of this product. None of the other components present at 0.1 % or greater are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA.

Mutagenicity : No adverse effects are expected.

Teratogenicity : No adverse effects are expected.

Developmental effects : No known significant effects or critical hazards

Fertility effects : No known significant effects or critical hazards

Target organs : No known significant effects or critical hazards

Developmental effects : No known significant effects or critical hazards

Fertility effects : No known significant effects or critical hazards

Target organs : No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates : Titanium Dioxide
Oral rat LD50 > 5000 mg/kg
Inhalation rat LC50>6.82 mg/L
: Calcium Carbonate: not acutely toxic

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	LC50> 1000 mg/L	Fish-Pimephales promelas	96 hours

Persistence and degradability : There is no data available

Bio accumulative potential : There is no data available

Mobility in soil

Soil/water partition coefficient : No data available

(K_{oc})

Other adverse effects : No known significant effects or critical hazards

Section 13. Disposal Considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recycled products via a licensed waste disposal contractor. Waste should not be disposed of to a sewer. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, water ways, drains and sewers.

Section 14. Transportation information

DOT/IATA/IMDG : Not regulated

Section 15. Regulatory information

U.S. Federal regulations: : **United States inventory:** All components are listed on the EPA TSCA Inventory.
CERCLA : This product has a Reportable Quantity (RQ) of 50,000 lbs, based on the RQ for Cardendazim of 10 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under applicable federal, state and local regulations.

Composition/information on ingredients

SARA 311/312 Classification : Not hazardous.

Composition/information on ingredients

SARA 313 : This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

State regulations

California Prop 65 : This product contains chemicals known to the State of California to cause cancer or reproductive toxicity (birth defects).

16. Other information

Hazardous Material Information System (USA)

Health -1 **Flammability-0** **Physical hazards-0**

Caution: HMIS® rating are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with fully implemented HMIS® program. HMIS® is a registered trademark of the National Paint & Coating Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller. The customer is responsible for determining the PPE code for this material.

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Prepared by C. Rogalski

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