

**SAFETY DATA SHEET**  
**DERBIFLASH RS VINYL CHIPS**



**SECTION 1 IDENTIFICATION**

**Product Name** Derbiflash RS Vinyl Chips  
**Recommended Use** Decorative finish Derbiflash RS Top Coats  
**Manufacturer** Performance Roof Systems  
**Address** 4821 Chelsea Avenue  
Kansas City, MO 64130  
**Phone Number** (800) 727-9872  
**Emergency Number** (800) 424-9300 (CHEMTREC)

**SECTION 2 HAZARDS**

**GHS Classification** Skin Sensitization: Category 1  
STOT: Single Exposure: Respiratory Tract Irritation; Category 3

**Hazard Pictographs**



**Signal Word**

**WARNING**

**Hazard Statements**

H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer

**Precautionary Statements**

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P233 - Keep container tightly closed  
P261 - Avoid breathing dust.  
P362 - Take off contaminated clothing and wash before reuse.  
P264 - Wash hands, forearms and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear gloves/protective clothing/eye protection/face protection

**Response**

P301 + P312 + P330 If swallowed: Rinse mouth.  
P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), foam, dry extinguishing powder to extinguish

**Storage**

P403+P235 - Store in well-ventilated place. Keep cool

**Disposal**

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

ABBREVIATION KEY

**SECTION 3 COMPOSITION**

**Chemical Composition**

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Polyvinyl Acetate	9003-20-7	10 -15%
Barium Sulfate	7727-43-7	25 - 35%
Titanium dioxide	13463-67-7	1 -10%
Crystalline Silica*	14808-60-7	50 - 65%

**Note:** The above components and their percentages are provided for health and safety purposes, ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

**SECTION 4 FIRST AID MEASURES**

<b>Eyes</b>	If foreign matter enters eyes, immediately flush with large amounts of potable water for at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.
<b>Skin</b>	Wash with plenty of soap and water. Remove all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.
<b>Inhalation</b>	Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen. Get medical attention.
<b>First-Aid, Ingestion</b>	Do NOT induce vomiting. Rinse mouth.
<b>Symptoms, Acute &amp; Delayed</b>	<b>Refer to Section 11 - Toxicological Information</b>
<b>Immediate Medical Attention</b>	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

**SECTION 5 FIRE FIGHTING MEASURES**

<b>Fire Hazard</b>	No unusual fire or explosion hazards noted.
<b>Hazardous Combustions</b>	carbon monoxide and carbon dioxide
<b>Extinguishing Media</b>	CO <sub>2</sub> , dry chemical, foam, water spray, water fog
<b>Firefighting instruction</b>	Use fire fighting measures that suite the environment.
<b>Explosion Hazard</b>	None
<b>Protection Gear</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Wear appropriate protective clothing to avoid eye and skin contact. Ensure adequate ventilation.
<b>Environmental Precautions</b>	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.
<b>Method and Materials for Containment &amp; Clean Up</b>	Sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Dispose of in an approved facility, <b>see Section 13, Disposal Considerations.</b>

ABBREVIATION KEY

OSHA = Occupational Safety & Health Administration  
 HCS = Hazard Communication Standard

NFPA = National Fire Protection Association

**SECTION 7 HANDLING AND STORAGE**

**Handling** Observe good industrial hygiene practices. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid generation of dust. Avoid breathing dust. Keep containers closed when not in use. Wash thoroughly after handling. **Use personal protective equipment as described in Section 8.**

**Storage** Store in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use.

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Occupational Exposure Limits**

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH
Barium Sulfate	7727-43-7	5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> (STEL)	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> (STEL)
Titanium dioxide	13463-67-7	15 mg/m <sup>3</sup> TWA (total)	10 mg/m <sup>3</sup> TWA	Not Established
Crystalline Silica	14808-60-7	0.1 mg/m <sup>3</sup> TWA (Respirable)	0.025 mg/m <sup>3</sup> TWA (Respirable fraction)	0.05 mg/m <sup>3</sup> TWA (Respirable dust)

**Engineering Measures/ Controls** Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

**General Industrial Hygiene** Use good industrial hygiene practices in handling this material.

**Environmental Exposure Controls** Follow best practice for site management and disposal of waste.

**PERSONAL PROTECTIVE EQUIPMENT**

**Pictographs**



**Eyes/Face** **Safety glasses with side shields**  
Follow the national guidelines concerning the use of protective eye wear.

**Hand** **Protective Gloves**  
Leather or cotton gloves may be worn to prevent skin contact and irritation.

**Skin/Body** Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.

**Inhalation** Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

**ABBREVIATION KEY**

OSHA = Occupational Safety & Health Administration  
NIOSH = National Institute for Occupational Safety  
ACGIH = American Conference of Governmental Industrial Hygiene  
MSHA = Mine Safety and Health Administration

PEL = Permissible Exposure Level  
TLV = Threshold Limit Value  
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

**SAFETY DATA SHEET**  
**DERBIFLASH RS VINYL CHIPS**



**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Solid
<b>Appearance</b>	white/colored flakes
<b>Odor</b>	odorless
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Relative Evaporation Rate</b>	No data available
<b>Boiling Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapor Density</b>	Heavier than air
<b>Specific Gravity</b>	≈ 3.6
<b>Solubility in Water</b>	No data available
<b>Viscosity</b>	No data available
<b>VOC</b>	0

**SECTION 10 STABILITY AND REACTIVITY**

<b>Stability</b>	Material is stable under advised storage and handling conditions
<b>Reactivity</b>	Avoid excessive heat
<b>Incompatibility</b>	Strong acids
<b>Conditions to Avoid</b>	Incompatible materials, Dust formation and Strong oxidizers.
<b>Hazardous Polymerization</b>	Does not occur
<b>Hazardous Decomposition</b>	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion or burning.

**ABBREVIATION KEY**

OSHA = Occupational Safety & Health Administration  
NIOSH = National Institute for Occupational Safety  
ACGIH = American Conference of Governmental Industrial Hygiene  
MSHA = Mine Safety and Health Administration

PEL = Permissible Exposure Level  
TLV = Threshold Limit Value  
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Component Analysis**

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)
Titanium dioxide	13463-67-7	> 2,000 (rat)	N/A	> 5.09 (rat) 4 hour

**POTENTIAL HEALTH EFFECTS**

**Eyes**

**Acute (Immediate)**

May cause temporary irritation, tearing and burning

**Chronic (Delayed)**

This product is not expected to cause serious eye damage or irritation

**Skin**

**Acute (Immediate)**

Prolonged skin contact may cause dryness, redness or cracking

**Chronic (Delayed)**

This product is not expected to cause sensitization

**Inhalation**

**Acute (Immediate)**

May cause respiratory irritation.

**Chronic (Delayed)**

Prolonged inhalation may be harmful

**Ingestion**

**Acute (Immediate)**

Gastrointestinal symptoms, including upset stomach

**Chronic (Delayed)**

No data available

**Component Carcinogenicity**

Titanium dioxide (13463-67-7)

IARC: Group 2B - Not classifiable as to its carcinogenicity to humans

Crystalline Silica (14808-60-7)

IARC: Group 2 - carcinogenic to humans

**Reproductive Toxicity**

Based on available data, the classification criteria are not met

**Teratogenicity**

Based on available data, the classification criteria are not met

**Mutagenicity**

Based on available data, the classification criteria are not met

**Aspiration Hazard**

Not classified

**STOT Single Exposure**

STOT RE Hazard Category 3

**STOT Repeated Exposure**

Based on available data, the classification criteria are not met.

**SECTION 12 ECOLOGICAL INFORMATION**

**Eco toxicity**

COMPONENT	CAS NUMBER	FISH LC50 (mg/L)	DAPHNA EC50 (mg/L)	ALGAE EC50 (mg/L)
Titanium dioxide	80-62-6	>1,000 (fathead minnow) 96 Hours	N/A	>61 (algae) 72 hours
Barium Sulfate	7727-43-7	>174 (zebra fish) 96 Hours	N/A	>100 (green algae) 72 Hours

**Persistence & Degradability**

No Data

**Soil Absorption/Mobility**

No Data

**Bioaccumulation Potential**

No Data

**Ozone-Depletion Potential**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

ABBREVIATION KEY

LD50 = Lethal dose, 50 percent  
IARC = International Agency for Research on Cancer  
EC50 = Effective concentration, 50 Percent

LC50 = Lethal concentration, 50 Percent  
STOT = Specific Target Organ Toxicity

**SECTION 13 DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**      The transportation, storage, treatment and dispose of this waste must be conducted in accordance with all applicable federal, state and local regulations.

**Recommendation**            Product mixed with hardener and fully cured is ecologically save and can be disposed to local refuse deposit or recycling facility.

**SECTION 14 TRANSPORT INFORMATION**

**Transportation Regulations**      This product is not regulated as a hazardous material in transportation.

**SECTION 15 REGULATORY INFORMATION**

**TSCA Inventory**                      Components are listed

**DSL Inventory**                        Components are listed

**CERCLA**                                This material does not contain any components with a CERCLA RQ

**Sara 311/312 Categories**            Chronic health Hazard

**Sara 313**                                This material does not contain any components with a section 304 EHS RQ

**Clean Air Act**                        This product does not contain any hazardous air pollutants

**CA Proposition 65**                  WARNING: This product can expose you to chemicals including carbon black and titanium dioxide which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Right to Know States**

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
Polyvinyl Acetate	9003-20-7		Yes		Yes		
Barium Sulfate	7727-43-7		Yes		Yes	Yes	
Titanium dioxide	13463-67-7	Yes	Yes	Yes	Yes	Yes	Yes
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

**SECTION 16 OTHER INFORMATION**

**Preparation Date**                      April 2020

**Revision Date**                        March 2022

**Summary of Changes**                Branding Update

**Disclaimer**                            The information and recommendations contained herein are to the best of Performance Roof Systems' knowledge and belief, accurate and reliable as of the date issued. Performance Roof Systems does not warrant or guarantee their accuracy or reliability, and Performance Roof Systems shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from Performance Roof Systems.

ABBREVIATION KEY

TSCA = Toxic Substances Control Act  
 CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

DSL = Domestic Substances List (Canada)  
 SARA = Superfund Amendments and Reauthorization Act