

#### **SECTION 1 IDENTIFICATION**

**Product Name** Derbiflash RS 210

**Recommended Use** Base resin for Derbiflash RS 233 SL Mortar

Manufacturer Performance Roof Systems **Address** 4821 Chelsea Avenue

Kansas City, MO 64130

**Phone Number** (800) 727-9872

(800) 424-9300 (CHEMTREC) **Emergency Number** 

# **SECTION 2 HAZARDS**

**GHS Classification** Flammable Liquid: Category 2

> Skin Irritation: Category 2 Skin Sensitization: Category 1

STOT: Single Exposure: Respiratory Tract Irritation; Category 3

**Hazard Pictographs** 





DANGER Signal Word

**Hazard Statements** H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation

**Precautionary Statements** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from open flames - NO SMOKING

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting/... equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. 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

P273 - Avoid release into the environment

P280 - Wear gloves/protective clothing/eye protection/face protection

P301 + P312 + P330 If swallowed: Call a POISON CENTER/doctor if you feel Response

unwell. Rinse mouth.

P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340+312 If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.



#### **SECTION 2 HAZARDS**

**Response** 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 (CO2), foam, dry extinguishing

powder to extinguish

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

P405 - Store locked up.

**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

## **SECTION 3 COMPOSITION**

# **Chemical Composition**

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Methyl methacrylate	80-62-6	25 - 50
2-Ethylhexyl acrylate	103-11-7	10 - 20

**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

**Eyes** 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.

**Skin** 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.

**Inhalation** Remove affected person from source of exposure. If not breathing, institute

cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen.

Get medical attention.

First-Aid, Ingestion Immediately call a poison center. Do NOT induce vomiting. Rinse mouth.

Symptoms, Acute & Delayed Refer to Section 11 - Toxicological Information

Immediate Medical Attention 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

Fire Hazard Highly flammable liquid and vapor

Flash Point 73.4°F (MMA Closed Cup)

Hazardous Products of Combustions

CO, CO<sub>2</sub>, Nitrogen oxides, hydrocarbons, black smoke and methacrylic acid fumes.

**Extinguishing Media** 

Universal foam, dry chemical powder, CO2 or sand

Firefighting instruction

Do not use a heavy water stream. Use of heavy stream of water may spread fire. Use standard procedure for chemical fires. Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be collected and disposed of in accordance with local regulations.

**Explosion Hazard** 

May form flammable/explosive vapor-air mixture.

**Protection Gear** 

Do not enter fire area without proper equipment, including respiratory protection.

## **SECTION 6** ACCIDENTAL RELEASE MEASURES

**Personal Precautions**Wear appropriate protective clothing to avoid eye and skin contact. Ensure

adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating

to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental Precautions** Avoid release into the environment. Report releases as required by local, state and

federal authorities.

Method and Materials for Containment & Clean Up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Shut off all sources of ignition. Keep people away. Eliminate sources of ignition. Minimize skin contact and avoid breathing vapors. Ventilate confined spaces. Keep product out of sewers and waterways by diking or impounding. Dispose of in an approved facility,

see Section 13, Disposal Considerations.

# **SECTION 7 HANDLING AND STORAGE**

**Handling**Use this product with adequate ventilation. Material is COMBUSTIBLE. Material

requires electrical grounding during material transfer process to prevent fire or explosion risk from static accumulation and discharge. All electrical equipment in storage and handling areas should be installed per NFPA requirements. Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. *Use personal protective equipment as described* 

in Section 8.

**Storage** Store in a dry, cool and well-ventilated place and away from sources of ignition.

Keep containers tightly closed when not in use. DO NOT STORE NEAR HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION OR STRONG OXIDIZERS.

Keep only in original container.



#### **SECTION 8** EXPOSURE CONTROLS AND PERSONAL PROTECTION

# **Occupational Exposure Limits**

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH
Methyl methacrylate	80-62-6	410 mg/m³ TWA	205 mg/m³ TWA 410 mg/m³ (STEL)	410 mg/m³ TWA

**Engineering Measures/** 

**Controls** 

Adequate ventilation systems as needed to control concentrations of airborne

contaminants below applicable threshold limit values.

**General Industrial Hygiene** 

**Environmental Exposure** 

Use good industrial hygiene practices in handling this material. Follow best practice for site management and disposal of waste.

**Controls** 

# 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.

No data available

< 5 a/l

**Inhalation** Use NIOSH or MSHA approved respiratory protective equipment when airborne

exposure limits are exceeded.

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Liquid
Appearance Grey
Odor Strong, solvent-like

**Odor Threshold** No data available No data available pΗ **Relative Evaporation Rate** No data available **Boiling Point** 213.8°F (101°C) **Freezing Point** No data available **Flash Point** 73.4°F (23°C) **Auto-ignition Temperature** No data available **Decomposition Temperature** No data available Flammability (solid, gas) No data available **Vapor Density** Heavier than air **Specific Gravity** No data available **Density**  $\approx 1 \text{ g/cm}^3$ Solubility in Water Insoluble

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

**Viscosity** 

VOC

PEL = Permissible Exposure Level

TLV = Threshold Limit Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures



#### **SECTION 10 STABILITY AND REACTIVITY**

**Stability** Material is stable under advised storage and handling conditions

**Reactivity** Avoid excessive heat

**Incompatibility** Strong acids, strong oxidizing agents, strong bases, reducing agents and

halogenated compounds

**Conditions to Avoid**Open flames, sparks, electrostatic discharge, heat and other ignition sources;

prolonged exposure to direct direct sunlight.

Hazardous Polymerization Storage temperatures over 140°F can produce uncontrolled and

exothermic polymerization

Hazardous Decomposition During a fire, irritating/toxic gases such as: carbon monoxide, carbon dioxide,

nitrogen oxides, hydrocarbon by-products and black smoke

# **SECTION 11 TOXICOLOGICAL INFORMATION**

# **Component Analysis**

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)
Methyl methacrylate	80-62-6	>7,872 (rat)	>5,000 (rabbit)	29.8/4hr (rat)
2-Ethylhexyl acrylate	103-11-7	>4,435 (rat)	>7,522 (rabbit)	N/A

#### **POTENTIAL HEALTH EFFECTS**

Eyes

**Acute** (*Immediate*) Conjunctivitis, irritation, tearing and burning

**Chronic (Delayed)** Causes eye irritation.

Skin

Acute (Immediate) Irritation and inflammation. Allergic skin reaction may occur. Dermatitis

Chronic (Delayed) Causes skin irritation

Inhalation

**Acute (Immediate)** May cause respiratory irritation. May cause drowsiness or dizziness.

**Chronic (Delayed)** Prolonged inhalation may be harmful

Ingestion

Acute (Immediate) Swallowing a small quantity of this material will result in serious health hazard

Chronic (Delayed) No data available

**Component Carcinogenicity** Methyl methacrylate (80-62-6)

IARC: Group 3 - Not classifiable as to its carcinogenicity to humans

2-Ethylhexyl acrylate (103-11-7)

IARC: Group 2B - Possibly carcinogenic to humans

Reproductive ToxicityBased on available data, the classification criteria are not metTeratogenicityBased on available data, the classification criteria are not metMutagenicityBased 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)
Methyl methacrylate	80-62-6	>191 (Bluegill sunfish) 96 Hours	>69 (Water flea) 48 Hours	>110 (algae) 72 hours
2-Ethylhexyl acrylate	103-11-7	>100 (Rainbow trout) 96 Hours	>17 (Water flea) 48 Hours	>44 (green algae) 72 Hours

Persistence & Degradability Methyl methacrylate (80-62-6) Result: Readily biodegradable;

Biodegradation: >95 % Exposure time: 15 days

2-ethylhexyl acrylate (103-11-7) Result: Readily biodegradable;

Biodegradation: 75 % Exposure time: 15 days

**Bioaccumulative potential**No Data Available **Soil Absorption/Mobility**No Data Available

**General Notes** Avoid release to the environment

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**Dispose of in a manner consistent with federal, state and local regulations. This

includes pails containing uncured material. Pails with cured/hardened remains of

product can be sent for recycling.

**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**

Classification (TDG & DOT) 3 Flammable liquids

Identification Number UN1263

**Shipping name** Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish,

liquid filler, and liquid lacquer base

Packaging group

#### **SECTION 15 REGULATORY INFORMATION**

**TSCA Inventory**Components are listed
Components are listed

**CERCLA** Under requirements of the Comprehensive Environmental Response, Compensation,

and Liability Act, methyl methacrylate (80-62-6) has a Reportable Quantity of 1,000 lbs. Any spill or release above this RQ must reported to the National Response

Center (800-424-8802).

ABBREVIATION KEY

LC50 = Lethal concentration, 50 Percent DOT = Department of Transportation

= Toxic Substances Control Act

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

EC50 = Effective concentration, 50 Percent

TGA = Therapeutic Goods Administration

DSL = Domestic Substances List (Canada)



#### **SECTION 15 REGULATORY INFORMATION**

Sara 311/312 Categories Fire Hazard: Acute health Hazard

**Sara 313** methyl methacrylate (80-62-6) 10-30% **Clean Air Act** methyl methacrylate (80-62-6) 10-30%

**CA Proposition 65** This product does not contain chemical known in the state of California to cause

cancer, birth defects or reproductive harm.

**Right to Know States** 

**Disclaimer** 

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
Methyl methacrylate	80-62-6	No	Yes	No	Yes	Yes	Yes
2-Ethylhexyl acrylate	103-11-7	No	No	No	Yes	Yes	Yes

#### **SECTION 16 OTHER INFORMATION**

**Preparation Date** April 2020 **Revision Date** March 2022 **Summary of Changes** 

**Branding Update** 

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.



## **SECTION 1** IDENTIFICATION

**Product Name** Derbiflash RS 223 Mixing Powder

**Recommended Use** Filler for self-levelling mortar **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 Carcinogenicity: Category 1

**Hazard Pictographs** 

Signal Word DANGER

Hazard Statements H350 - 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

P261 - Avoid breathing dust

P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

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), Rinse skin with water/shower

P304+P340+312 If inhaled: Remove person to fresh air and keep comfortable for

breathing. Get medical advice/attention if you feel unwell

P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention

P370+P378 - In case of fire: Use carbon dioxide (CO2), foam, dry extinguishing

powder to extinguish

**Storage** P405 - Store locked up.

**Disposal** P501 - Dispose of container in accordance with local, regional or national regulations

# **SECTION 3 COMPOSITION**

# **Chemical Composition**

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Crystalline silica	14808-60-7	60 - 100

**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

**Eyes** 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.

**Skin** Wash with plenty of soap and water.

**Inhalation** Remove person to fresh air and keep comfortable for breathing. Get medical attention

if you feel unwell.

First-Aid, Ingestion Rinse mouth.

Symptoms, Acute & Delayed

Refer to Section 11 - Toxicological Information

Immediate Medical Attention 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

Fire Hazard Non-combustible

Hazardous Products of Combustions

CO, CO<sub>2</sub>, Nitrogen oxides, hydrocarbons, black smoke and methacrylic acid fumes.

**Extinguishing Media** Universal foam, dry chemical powder, CO2 or sand

Firefighting instruction

Do not use a heavy water stream. Use standard procedure for chemical fires.

**Explosion Hazard** 

None

**Protection Gear**Do not enter fire area without proper equipment, including respiratory protection.

## **SECTION 6** ACCIDENTAL RELEASE MEASURES

Personal Precautions Provide adequate ventilation. Avoid generation of dust. Do not breathe dust.

Use personal protective equipment as described in Section 8.

Environmental Precautions

Method and Materials for

Method and Materials for Containment & Clean Up

None

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Ventilate affected area. Collect in closed containers for disposal.

# **SECTION 7** HANDLING AND STORAGE

**Handling** Provide adequate ventilation. Avoid generation of dust. Do not breathe dust.

Use personal protective equipment as described in Section 8.

**Storage** Keep locked up. Provide adequate ventilation.

## **SECTION 8** EXPOSURE CONTROLS AND PERSONAL PROTECTION

## **Occupational Exposure Limits**

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH
Crystalline silica	14808-60-7	0.1 mg/m³ TWA (respirable)	0.025 mg/m³ TWA (respirable)	0.05 mg/m³ TWA (respirable)

# SAFETY DATA SHEET

# DERBIFLASH RS 223 MIXING POWDER



#### **SECTION 8** EXPOSURE CONTROLS AND PERSONAL PROTECTION

**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.

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Solid

**Appearance** Grey, granular powder

**Odor** odorless

**Odor Threshold** No data available No data available Ha **Relative Evaporation Rate** No data available **Boiling Point** No data available **Freezing Point** No data available **Flash Point** No data available **Auto-ignition Temperature** No data available **Decomposition Temperature** No data available Flammability (solid, gas) No data available **Vapor Density** Heavier than air

**Specific Gravity**  $\approx 2.65$ 

DensityNo data availableViscosityNo data available

**VOC** 0 g/l

## **SECTION 10 STABILITY AND REACTIVITY**

Stability Material is stable under advised storage and handling conditions

**Reactivity** No potentially hazardous reactions known

Incompatibilitymoisture, heatHazardous PolymerizationWill not occur

Hazardous Decomposition During a fire, irritating/toxic gases such as: carbon monoxide, carbon dioxide,

nitrogen oxides, hydrocarbon by-products and black smoke

= Threshold Limit Value

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

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Page 3 of 5

PEL

= Permissible Exposure Level



## **SECTION 11 TOXICOLOGICAL INFORMATION**

## **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. May cause drowsiness or dizziness.

**Chronic (Delayed)** Prolonged inhalation may be harmful

Ingestion

**Acute (Immediate)**Swallowing a small quantity of this material will result in serious health hazard

Chronic (Delayed) No data available

**Component Carcinogenicity** Crystalline silica (14808-60-7)

IARC: Group 1 - Carcinogenic to humans

Reproductive ToxicityBased on available data, the classification criteria are not metTeratogenicityBased on available data, the classification criteria are not metMutagenicityBased on available data, the classification criteria are not metAspiration HazardBased on available data, the classification criteria are not metSTOT Single ExposureBased on available data, the classification criteria are not metSTOT Repeated ExposureBased on available data, the classification criteria are not met

#### **SECTION 12 ECOLOGICAL INFORMATION**

**Eco toxicity**No known significant effects or critical hazards

Persistence & DegradabilityNo Data AvailableBioaccumulative potentialNo Data AvailableSoil Absorption/MobilityNo Data Available

# **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 Crystalline silica,

which is known to the State of California to cause cancer. For more information go to

www.P65Warnings.ca.gov.

# **Right to Know States**

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
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

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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.