

SECTION 1 IDENTIFICATION

Product Name Derbiflash RS Paste
Recommended Use Rapid-curing PMMA heavy paste for crack filling
Restrictions For Professional use only
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 Flammable Liquid: Category 2
Skin Irritation: Category 2
Skin Sensitization: Category 1
Germ cell mutagenicity: Category 1B
Carcinogenicity: Category 1A
STOT: Single Exposure: Respiratory Tract Irritation; Category 3

Hazard Pictographs



Signal Word

DANGER

Hazard Statements

H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H340 - May cause genetic defects
H350 - May cause cancer.

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.
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.

Response

P301 + P312 + P330 If swallowed: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower

ABBREVIATION KEY

SECTION 2 HAZARDS

Response P304 + P340 + P312 If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor 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
 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

OTHER HAZARDS None known

SECTION 3 COMPOSITION

Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Methyl methacrylate	80-62-6	7 - 30
2-Ethylhexyl acrylate	103-11-7	7 - 30
Naphtha Solvent, heavy aromatic	64742-82-1	< 1
Stoddard solvent	8052-41-3	< 1
Crystalline Silica	14808-60-7	10 - 30

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 Do NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse mouth. Keep respiratory tract clear. Get medical attention.

Symptoms, Acute & Delayed Immediate Medical Attention *Refer to Section 11 - Toxicological Information*
 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	71.6°F (MMA Closed Cup) LEL: N/A UEL: N/A
Hazardous Products of Combustions	CO, CO ₂ , methacrylic acid fumes.
Extinguishing Media	Foam, Sand, CO ₂ or dry chemical extinguishers.
Firefighting instruction	Do NOT use not use a heavy water stream. 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	There is a potential for containers to rupture violently in fires. Use a water spray to cool fully closed containers. Vapors from product may explode if ignited in a confined space.
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.
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). Keep people away. Eliminate sources of ignition. Minimize skin contact and avoid breathing vapors. Ventilate confined spaces. Keep product out of sewers and waterways. Dispose of in an approved facility, <i>see Section 13, Disposal Considerations.</i>

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. <i>Use personal protective equipment as described in Section 8.</i>
Storage	Keep containers cool, dry 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. 32 - 77 °C

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Methyl methacrylate	80-62-6	410 mg/m ³ TWA	410 mg/m ³ TWA	410 mg/m ³ TWA
Stoddard solvent	8052-41-3	2,900 mg/m ³ TWA	100 ppm TWA	Not Established
Naphtha solvent, heavy aromatic	64742-82-1	2,900 mg/m ³ TWA	100 ppm TWA	350 mg/m ³ TWA 1800 mg/m ³ (15 min)
Crystalline Silica	14808-60-7	0.1 mg/m ³ TWA (Respirable)	0.025 mg/m ³ TWA (Respirable fraction)	0.05 mg/m ³ 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Grey paste
Odor	Strong, solvent-like
Odor Threshold	No data available
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	≈ 213.8°F ≈ 101°C
Freezing Point	No data available
Flash Point	>71.6°F; >22°C
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Vapor Density	No data available
Percent Solids	72%
Specific Gravity	No data available
Solubility in Water	Insoluble
Viscosity, dynamic	≈ 4500 mPa.s
VOC	< 10 g/L

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 10 STABILITY AND REACTIVITY

Stability	Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.
Reactivity	No decomposition if stored and applied as directed
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; Extremely high or low temperatures
Hazardous Decomposition	Carbon monoxide, Carbon dioxide and may release flammable gases

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	>5,000 (rat)	>5,000 (rabbit)	>29.8 (rat) 4 hour
2-Ethylhexyl acrylate	103-11-7	>4,435 (rat)	>7,522 (rabbit)	>1.19 (rat) 8 hour
Stoddard Solvent	8052-41-3	>5,000 (rat)	>3,000 (rabbit)	>5.5 (rat) 4 hour
Naphtha Solvent, heavy aromatic	64742-82-1	>5,000 (rat)	>2,000 (rabbit)	>5,610 (rat) 4 hour

POTENTIAL HEALTH EFFECTS

Eyes	
Acute (Immediate)	Conjunctivitis, irritation, tearing and burning
Chronic (Delayed)	May cause irreversible eye damage.
Skin	
Acute (Immediate)	Irritation and inflammation. Allergic skin reaction may occur. Dermatitis
Chronic (Delayed)	Causes skin irritation
Inhalation	
Acute (Immediate)	Irritation to mucus membranes and respiratory tract, nausea, dizziness and headache
Chronic (Delayed)	No data available
Ingestion	
Acute (Immediate)	Product is not intended nor is it likely to be ingested or eaten.
Chronic (Delayed)	No data available
Component Carcinogenicity	Crystalline silica (14808-60-7) IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997]) ACGIH: A2 - Suspected Human Carcinogen NTP: Known Human Carcinogen
Carcinogenic Effects	This product contains crystalline silica which is listed by IARC as a suspect carcinogen but concentrations above the limits of exposure are not likely to occur due to the components incorporation into the mixture/provided use.
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 based on available information
STOT Single Exposure	STOT RE Hazard Category 3
STOT Repeated Exposure	Based on available data, the classification criteria are not met

ABBREVIATION KEY

LD50 = Lethal dose, 50 percent
IARC = International Agency for Research on Cancer
ACGIH = American Conference of Governmental Industrial Hygiene

LC50 = Lethal concentration, 50 Percent
NTP = National Toxicology Program
STOT = Specific Target Organ Toxicity

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	>79 (coho salmon) 96 Hours	>69 (Water flea) 48 Hours	>110 (algae) 72 hours
2-Ethylhexyl acrylate	103-11-7	>1.81 (rainbow trout) 96 Hours	>1.3 (Water flea) 48 Hours	>1.71 (algae) 72 Hours
Naphtha Solvent, heavy aromatic	64742-82-1	>2.6 (rainbow trout) 96 Hours	>4.5 (Water flea) 48 Hours	>3.7 (green algae) 96 Hours

Persistence & Degradability

2-ethylhexyl acrylate (103-11-7)

Result: Readily biodegradable; Biodegradation: 75 % Exposure time: 15 days

Stoddard Solvent (8052-41-3)

Result: Readily biodegradable; Bioconcentration factor (BCF): 39.66

Naphtha Solvent, heavy aromatic (64742-82-1) aerobic

Result: Readily biodegradable; Biodegradation: 77.05 % Exposure time: 28 days

Bioaccumulation Potential

COMPONENT	CAS NUMBER	LOG P _{OW}	TEMPERATURE	SOIL pH
Methyl methacrylate	80-62-6	1.38	68°F	7
2-Ethylhexyl acrylate	103-11-7	4.64	77°F	N/A
Stoddard Solvent	8052-41-3	5.25	77°F	7

Soil Absorption/Mobility

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)

SECTION 13 DISPOSAL CONSIDERATIONS

This is "RCRA" regulated hazardous waste [D001 Ignitable per 40 CFR 260.21] and must be disposed in a permitted facility. Containers are hazardous waste if not emptied completely (less than 1 inch of residue).

Dispose of in an environmentally safe manner and in accordance with governmental regulations. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulation ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

SECTION 14 TRANSPORT INFORMATION

Classification (TDG & DOT) 3 Flammable liquid
Identification Number UN1263
Shipping name Paint
Packaging group II

ABBREVIATION KEY

LC₅₀ = Lethal concentration, 50 Percent
 lof_{Pow} = octanol-water partition coefficient
 DOT = Department of Transportation

EC₅₀ = Effective concentration, 50 Percent
 RCRA = Resource Conservation and Recovery Act
 TGA = Therapeutic Goods Administration

SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed
DSL Inventory 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).
Sara 311/312 Categories Fire Hazard; Acute health Hazard; Chronic Health Hazard
Sara 313 **methyl methacrylate** (80-62-6) 7-30%
Clean Air Act The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61): **methyl methacrylate** (80-62-6) 7-30%
 This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
 The following chemical is listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate/or Final VOC's (40 CFR 60.489): **methyl methacrylate** (80-62-6) 7-30%
CA Proposition 65 **Silica, crystalline** (14808-60-7)
WARNING: This product contains a chemicals 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
Methyl methacrylate	80-62-6	Yes	Yes	Yes	Yes	Yes	Yes
2-Ethylhexyl acrylate	103-11-7	No	Yes	Yes	Yes	Yes	No
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Stoddard solvent	8052-41-3	No	Yes	No	Yes	Yes	Yes
Naphtha Solvent, heavy aromatic	64742-82-1	No	Yes	No	Yes	Yes	No

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
 SARA = Superfund Amendments and Reauthorization Act

DSL = Domestic Substances List (Canada)