

SECTION 1 IDENTIFICATION

Product Name	Perflash
Product Identifier	Mixture of asphalt, mineral spirits, attapulgite, calcium carbonate, crystalline silica cellulose fibers and filler
Recommended Use	Roofing Membrane Flashing/Waterproofing
Restrictions	None
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	H225/H340/H350/H372
Hazard Pictographs	
Signal Word	Warning
Hazard Statements	H302 - Highly flammable liquid and vapor H340 - May cause genetic defects (dermal, inhalation) H350 - May cause cancer (dermal, inhalation) H372 - Causes damage to organs (central nervous system, eye, skin, lung, liver) through prolonged or repeated exposure (dermal, inhalation)
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 P260 - Do not breathe fume, gas, vapors P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product P273 - Avoid release into the environment P280 - Wear protective gloves and clothing P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower P303+P340 - If inhaled, remove person to fresh air and keep 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 P308+P313 - If exposed or concerned, get medical advice/attention P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment (see eye protection, protective gloves P370+P378 - In case of fire: Use carbon dioxide (CO2), foam, dry extinguishing powder to extinguish P403+P235 - Store in well-ventilated place. Keep cool

ABBREVIATION KEY

GHS = Global Harmonized System

STOT = Specific Target Organ Toxicity

SECTION 2 HAZARDS

P405 - Store locked up
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
Asphalt	8052-42-4	37 - 47
Mineral Spirits	8052-41-3	10 - 20
Attapulgate	12174-11-7	3 - 6
Calcium Carbonate	471-34-1	20- 35
Cellulose	9004-34-6	4 - 6
Crystalline Silica	14808-60-7	<1

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

First-Aid, Eyes Immediately flush with large amounts of potable water. Eye lids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

First-Aid, Skin Remove contaminated clothing and wash with soap and water.

First-Aid, 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 – aspiration hazard. If spontaneous vomiting occurs, monitor for breathing difficulty. Get immediate medical attention. 3-5 ounces may be fatal.

Symptoms, Eyes Conjunctivitis, irritation, tearing and burning

Symptoms, Skin Irritation and inflammation. Allergic skin reaction may occur. Dermatitis

Symptoms, Inhalation Irritation to mucus membranes and respiratory tract, nausea, dizziness and headache

Immediate Medical Attention Treat symptomatically

SECTION 5 FIRE FIGHTING MEASURES

Fire Hazard Combustible liquid

Flash Point > 105 °F Tag Closed Cup **LEL:** 0.5% **UEL:** 6.7%

Hazardous Products of Combustions H₂S, CO, CO₂ and SOX.

Extinguishing Media Foam CO₂ or dry chemical extinguishers.

Firefighting instruction Do not use direct water on substance. Water and foam may cause frothing. Treat as a fuel fire.

Explosion Hazard There is a potential for containers to rupture violently in fires. Vapors from product may explode if ignited in a confined space.

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

ABBREVIATION KEY

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective clothing to avoid eye and skin contact.
Environmental Precautions	Avoid release into the environment. Report releases as required by local, state and federal authorities.
Method and Materials for Containment & Clean Up	If your facility or operation has an “oil or hazardous substance contingency plan”, activate the procedure. Take immediate steps to stop and contain the spill. Shut off all sources of ignition. Keep people away. Eliminate sources of ignition. Recover free product, add limestone, earth, or other suitable absorbents. 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.
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.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye	Wear chemical splash goggles (ANSI Z87.1) or safety glasses when working with or transferring this product. DO NOT WEAR CONTACT LENSES IN THE PRESENCE OF THIS MATERIAL UNLESS SPLASH GOGGLES ARE WORN.
Skin	Use chemical resistant gloves, to avoid prolonged or repeated skin contact.
Respiratory	Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.
Ventilation	Ventilation may be used to reduce airborne concentrations. If ventilation can not reduce airborne concentrations below acceptable limits, appropriate respiratory protection should be used.

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Asphalt	8052-42-4	Not Established	0.5 mg/m ³ TWA (respirable)	0.5 mg/m ³ Ceiling (15 min)
Mineral Spirits	8052-41-3	1,150 mg/m ³ TWA	350 mg/m ³ TWA 1,800 mg/m ³ Ceiling (15 min)	525 mg/m ³ TWA
Attapulgit	12174-11-7	Not Established	Not Established	Not Established
Calcium Carbonate	471-34-1	5.0 mg/m ³ (respirable) 15 mg/m ³ (total)	10 mg/m ³ TWA	5.0 mg/m ³ (respirable) 10 mg/m ³ TWA

ABBREVIATION KEY

NIOSH = National Institute for Occupational Safety

MSHA = Mine Safety and Health Administration

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Cellulose	9004-34-6	10 mg/m ³	15 mg/m ³ (respirable)	Not Established
Crystalline Silica	14808-60-7	250 mppcf*	0.025 mg/m ³ TWA	0.05 mg/m ³ TWA

mppcf = Millions of particles per cubic foot of air

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Black fibered mastic
Odor	Slight hydrocarbon odor
Odor Threshold	No data available
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	>300°F; ≤148.8 °C
Freezing Point	No data available
Flash Point	>120 °F; >48.8 °C;
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Relative Density	1.3
Density (lb/gal)	10.2
Percent Volatile	10 - 20%
Solubility in Water	>0.5%
VOC	1.0 lb/gal; 165 g/L

SECTION 10 STABILITY AND REACTIVITY

Stability	Stable at room temperature in closed containers under advised storage and handling conditions.
Reactivity	Upon combustion CO and CO ₂ are formed
Conditions to Avoid	Strong oxidizers, no spark or open flame, direct sunlight and high temperatures
Hazardous Decomposition	Carbon monoxide, carbon dioxide, hydrogen sulfide and sulfur dioxide
Hazardous Polymerization	Will not occur

ABBREVIATION KEY

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

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

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity	No Data
Local Effects	Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.
Chronic Effects	Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause chronic effects.
Sub chronic effects	Kidney injury may occur
Carcinogenicity	Hazardous by OSHA criteria. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable
ACGIH	Asphalt; Silica crystalline
IARC Monographs	Asphalt; Silica crystalline; Stoddard Solvent
US NTP Report	Silica crystalline
Epidemiology	Hazardous by OSHA criteria.
Neurological effects	Hazardous by OSHA criteria.
Further Information	Symptoms may be delayed

SECTION 12 ECOLOGICAL INFORMATION

Eco toxicity	This product may cause adverse environmental effects if used improperly or release to the environment through a spill. Employ best management practices to prevent this material from entering storm sewer systems, waterways or otherwise impacting plant and animal species.
Environmental Transport	No Data
Environment Degradation	No Data
Soil Absorption/Mobility	No Data

SECTION 13 DISPOSAL CONSIDERATIONS

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.

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).

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

SAFETY DATA SHEET
PERFLASH



SECTION 14 TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT Non-bulk packages (< 119 gl capacity) are exempt from DOT HAZMAT requirements
Bulk packages @ less than 105 °F (119 gl or greater) Tars, liquid, 3, UN1999, PG II
Bulk packages above 105 °F (119 gl or greater) Elevated Temperature Liquid, Flammable, n.o.s., 3, UN3256, PG III

Canadian TDG Tars, liquid, 3 UN1999, PG II

SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed
DSL Inventory Components are listed
WHMIS Classification Class B, Division 2
Sara 313 None present
Sara 311/312 Categories Acute Hazard; Chronic Hazard; Fire Hazard
CERCLA None present
CA Proposition 65 This product may contain chemicals known to the state of California to cause cancer, birth defects, and/or other reproductive harm.

SECTION 15 REGULATORY INFORMATION

Right to Know States

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
Petroleum Asphalt	8052-42-4	No	Yes	No	Yes	Yes	Yes
Mineral Spirits	64742-88-7	Yes	Yes	Yes	Yes	Yes	No
Attapulgit	12174-11-7	Yes	No	No	No	No	No
Calcium Carbonate	471-34-1	No	Yes	Yes	No	Yes	Yes
Cellulose	9004-34-6	No	No	No	No	No	No
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

ABBREVIATION KEY

DOT = Department of Transportation
DSL = Domestic Substances List (Canada)
CERCLA = Comprehensive Environmental Response, Compensation, & Liability Act
HMIS = Hazardous Material Identification System

TSCA = Toxic Substances Control Act
SARA = Superfund Amendments and Reauthorization Act
GHS = Global Harmonized System

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

CERCLA = Comprehensive Environmental Response, Compensation, & Liability Act
GHS = Global Harmonized System
NFPA = National Fire Protection Agency

HMIS = Hazardous Material Identification System