




**SECTION 1 IDENTIFICATION**

<b>Product Name</b>	Perflash
<b>Product Identifier</b>	Mixture of asphalt, mineral spirits, attapulgit, calcium carbonate, crystalline silica cellulose fibers and filler
<b>Recommended Use</b>	Roofing Membrane Flashing/Waterproofing
<b>Restrictions</b>	None
<b>Manufacturer</b>	DERBIGUM Americas, Inc
<b>Address</b>	4821 Chelsea Avenue Kansas City, MO 64130
<b>Phone Number</b>	(800) 727-9872
<b>Emergency Number</b>	(800) 424-9300 (CHEMTREC)

**SECTION 2 HAZARDS**

<b>GHS Classification</b>	H225/H340/H350/H372
<b>Hazard Pictographs</b>	  
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	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)
<b>Precautionary Statements</b>	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 (CO <sub>2</sub> ), foam, dry extinguishing powder to extinguish P403+P235 - Store in well-ventilated place. Keep cool

**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
Attapulgite	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 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** H<sub>2</sub>S, CO, CO<sub>2</sub> and SOX.

**Extinguishing Media** Foam CO<sub>2</sub> 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.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Wear appropriate protective clothing to avoid eye and skin contact.
<b>Environmental Precautions</b>	Avoid release into the environment. Report releases as required by local, state and federal authorities.
<b>Method and Materials for Containment &amp; Clean Up</b>	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**

<b>Handling</b>	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.
<b>Storage</b>	Keep containers cool, dry and away from sources of ignition. Keep containers tightly closed when not in use. <b>DO NOT STORE NEAR HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION OR STRONG OXIDIZERS.</b> Keep only in original container.

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<b>Eye</b>	Wear chemical splash goggles (ANSI Z87.1) or safety glasses when working with or transferring this product. <b>DO NOT WEAR CONTACT LENSES IN THE PRESENCE OF THIS MATERIAL UNLESS SPLASH GOGGLES ARE WORN.</b>
<b>Skin</b>	Use chemical resistant gloves, to avoid prolonged or repeated skin contact.
<b>Respiratory</b>	Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.
<b>Ventilation</b>	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 <sup>3</sup> TWA (respirable)	0.5 mg/m <sup>3</sup> Ceiling (15 min)
Mineral Spirits	8052-41-3	1,150 mg/m <sup>3</sup> TWA	350 mg/m <sup>3</sup> TWA 1,800 mg/m <sup>3</sup> Ceiling (15 min)	525 mg/m <sup>3</sup> TWA
Attapulgite	12174-11-7	Not Established	Not Established	Not Established
Calcium Carbonate	471-34-1	5.0 mg/m <sup>3</sup> (respirable) 15 mg/m <sup>3</sup> (total)	10 mg/m <sup>3</sup> TWA	5.0 mg/m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> TWA

**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 <sup>3</sup>	15 mg/m <sup>3</sup> (respirable)	Not Established
Crystalline Silica	14808-60-7	250 mppcf*	0.025 mg/m <sup>3</sup> TWA	0.05 mg/m <sup>3</sup> TWA

mppcf = Millions of particles per cubic foot of air

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Black fibered mastic
<b>Odor</b>	Slight hydrocarbon odor
<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>	>300°F; ≤148.8 °C
<b>Freezing Point</b>	No data available
<b>Flash Point</b>	>120 °F; >48.8 °C;
<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 pressure</b>	No data available
<b>Relative Density</b>	1.3
<b>Density (lb/gal)</b>	10.2
<b>Percent Volatile</b>	10 - 20%
<b>Solubility in Water</b>	>0.5%
<b>VOC</b>	1. lb/gal; 165 g/L

**SECTION 10 STABILITY AND REACTIVITY**

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

**SECTION 11 TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	No Data
<b>Local Effects</b>	Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.
<b>Chronic Effects</b>	Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause chronic effects.
<b>Sub chronic effects</b>	Kidney injury may occur
<b>Carcinogenicity</b>	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
<b>ACGIH</b>	Asphalt; Silica crystalline
<b>IARC Monographs</b>	Asphalt; Silica crystalline; Stoddard Solvent
<b>US NTP Report</b>	Silica crystalline
<b>Epidemiology</b>	Hazardous by OSHA criteria.
<b>Neurological effects</b>	Hazardous by OSHA criteria.
<b>Further Information</b>	Symptoms may be delayed

**SECTION 12 ECOLOGICAL INFORMATION**

<b>Eco toxicity</b>	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.
<b>Environmental Transport</b>	No Data
<b>Environment Degradation</b>	No Data
<b>Soil Absorption/Mobility</b>	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

**SECTION 16** OTHER INFORMATION

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

COMPONENT	HEALTH	FIRE	REACTIVITY
NFPA Rating	1	2	0
HMIS Rating	1	2	0

*Reason for revision: Solvent Change & updated hazard information*



**SECTION 16** OTHER INFORMATION

The information and recommendations contained herein are to the best of DERBIGUM Americas' knowledge and belief, accurate and reliable as of the date issued. DERBIGUM Americas does not warrant or guarantee their accuracy or reliability, and DERBIGUM Americas 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 DERBIGUM Americas.

The Environmental Information included, as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings, have been included by DERBIGUM Americas in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with DERBIGUM Americas' interpretation of the available data.