



Material Safety Data Sheet – OSHA 174

Materials Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements

US Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved OMB No. 1218-0072

H.M.I.S. RATING

Health	2
Flammability	2
Reactivity	0
Protective Equip.	B

FlexShield 203 – Fibered Aluminum Coating

Section I

Manufacturer's Name GlobalShield, Inc.	Emergency Telephone 800-424-9300 (ChemTrec)	Telephone 800-974-7663
Address GlobalShield 320 Northpoint Pkwy. Suite O Acworth, GA 30102	Primary Contact Technical Services	Email info@globalshield.us
	NFPA 704	Preparer's Signature <i>Jerry Solou</i>

Section II Hazardous Ingredients / Identity Information

Hazardous Component	CAS#	OSHA PEL	AGGIH TLV	Other Limits	Percent
Petroleum Asphalt	8052-42-4	5 mg/m ³ respirable fraction	5 mg/m ³ fumes		<35
Mineral Spirits	8052-41-3	500 ppm	100 ppm		<45
Aluminum	7429-90-5	5 mg/m ³ respirable fraction	5 mg/m ³ fumes		<25
Mica	12001-26-2	3 mg/m ³	3 mg/m ³		<5
Cellulose Fiber	9004-34-6	15 mg/m ³	10 mg/m ³		<5

**All Chemicals comprising this product are listed on the Toxic Substance Control Act (TSCA) inventory.
Contains no toxic chemical(s) subject to the reporting requirements of section 313 of title III and of 40 CFR 372.

Section III Physical / Chemical Characteristics

Boiling Point 300°F	Melting Point N/A	Max VOC (g/l) <440
Vapor Pressure (mm Hg) 2.1 mm Hg @ 20°C	Evaporation Rate (Butyl Acetate=1) 0.1	Max VOC (lbs/gal) <3.64
Vapor Density (Air=1) Greater than air	Weight Per Gallon 8.73 ± 0.3	% Solids Volume 50
Color Silver/gray	Solubility in Water Insoluble	% Solids Weight 52
Odor Petroleum odor	Appearance Liquid	% Volatile 50
Specific Gravity 1.05	PH N/A	

Section IV Fire and Explosion Hazard Data**Flash Point Method**

TCC

Flash Point Temperature

105°F

LEL Flammable Limit

0.9

UEL Flammable Limit

6.7

Autoignition Temperature

540°F

Extinguishing Media

Foam, Carbon Dioxide, Dry Chemical, Water Fog, Spray (Water)

Fire Fighting Procedures

Firemen should wear MSHA/NIOSH approved self-contained apparatus to protect against inhalation of combustion products.

Additional Procedures

Material will float on water and can be reignited. Use water to cool containers to prevent bursting. Wear full firefighting gear including self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Intense heat can cause pressure build-up in containers and can result in bursting. Vapors are heavier than air and can travel along the ground to remote sources of ignition. Empty containers may contain residual vapors or liquid that could be ignited by heat, flame, sparks or other ignition sources.

Section V Reactivity Data**Stability**

Material is Stable

Conditions to Avoid

Heat, flame, sparks, or other sources of ignition.

Incompatibility (Materials to Avoid)

Strong Oxidants

Hazardous Decompositions or Byproducts

Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, Hydrogen Sulfides, and Smoke.

Hazardous Polymerization

Will Not Occur

Conditions to Avoid**Section VI Health Hazard Data****HEALTH HAZARDS (ACUTE):**

Vapors may be irritating to nose, throat, and respiratory tract. High concentrations may cause headaches, dizziness, nausea, drowsiness, anesthesia, and unconsciousness and can result in death. Vapors and liquid can cause eye irritation, redness, tearing and blurred vision. Ingestion can cause irritation of mouth, throat, and gastrointestinal tract. May cause nausea and vomiting. Aspiration of petroleum distillates into the lungs can cause severe chemical pneumonitis, which can be fatal.

HAZARDS (CHRONIC):

Prolonged or repeated contact can cause skin dryness, irritation and dermatitis.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Central nervous system diseases, skin disorders, eye disorders or chronic respiratory diseases may be worsened by exposure.

Ingredients are not considered carcinogenic by OSHA or NTP. IARC monographs list refined bitumens as possibly carcinogenic to humans based upon animal studies. IARC regards it prudent to treat a material for which there is sufficient evidence of carcinogenicity in animals as if it is possibly carcinogenic in humans.

Routes of Entry**If In Eyes****Symptoms**

- Eye irritation
- Blurred vision
- Burning of eyes
- Tearing, redness, or swelling

Emergency and First Aid Procedures

- Flush gently with large amounts of water for at least 15 minutes lifting upper and lower lids occasionally. Get immediate medical attention

If Ingested**Symptoms**

- May be a health hazard if ingested in large quantities.

Emergency and First Aid Procedures

- **DO NOT INDUCE VOMITING**
- Get prompt medical attention.

If Inhaled**Symptoms**

- Dizziness, headaches, even unconsciousness or death.
- Coughing.
- Shortness of breath.

Emergency and First Aid Procedures

- Remove from vapor immediately and if breathing is difficult, administer oxygen.
- If overcome, call physician.
- If breathing has stopped or is irregular, start

	resuscitation or administer oxygen, as needed.
If on Skin	
Symptoms	Emergency and First Aid Procedures
<ul style="list-style-type: none"> Possible dermatitis or allergenic reaction on repeated contact. 	<ul style="list-style-type: none"> Remove contaminated clothes and wash with waterless hand cleaner or soap and water.

Section VII Precautions for Safe Handling and Use.

Steps to be taken in case material is released or spilled:

Eliminate sources of ignition. Ventilate area. Wear appropriate safety equipment. Restrict access to area of spill. Contain spill using sand or other inert material. Recover free material to a secure container. Use inert absorbent to pick up residue. Wash area with soap and water.

Waste Disposal Method:

Dispose of material in accordance with applicable Federal, State and local regulations. This material is a RCRA regulated hazardous waste.

Precautions for Handling and Storage:

Do not store containers near heat, sparks, open flames or other sources of ignition. Keep container closed when not in use. Wear appropriate personal protective equipment when handling product. Grounding is required for pumping or spraying of material. Wash hands after using product and before eating or smoking.

Other Precautions:

Avoid breathing vapors. Avoid prolonged or repeated contact with skin. Remove contaminated clothing and launder before reuse. Remove contaminated shoes and thoroughly dry before reuse. Wash skin thoroughly with soap and water after contact.

Section VIII Control Measures

Ventilation

Use with adequate ventilation.

Other

N/A

Protective Equipment Required

Respirator

FOR OUTDOOR USE ONLY. Avoid breathing vapors or spray mist. If vapors exceed TLV, use a NIOSH/MSHA approved respirator equipped with an Organic Vapor cartridge or self-contained breathing apparatus.

Gloves

Impervious plastic or rubber gloves.

Goggles

Wear eye protection

Clothing

Wear long pants and long sleeved shirt. Remove contaminated clothing and launder before reuse.

Work Hygienic Practices

Use waterless hand cleaner to remove material from skin. Avoid breathing of vapors and spray mist. Equipment must be grounded for pumping or spraying. Use explosion-proof equipment. Eye wash stations and safety showers should be available.

Section IX Special Precautions for Safe Handling and Storage

Precautions for Handling and Storage

KEEP FROM FREEZING

Other Precautions

Do not store containers near heat, sparks, open flames or other sources of ignition. Keep container closed when not in use. Wear appropriate personal protective equipment when handling product. Grounding is required for pumping or spraying of material. Wash hands after using product and before eating or smoking.

Section X Transportation Data**DOT**

Not Regulated in individual containers holding less than 119 gallons.

DOT Proper Shipping Name:

Combustible Material, NOS,3, NA 1993, PG III
Contains Petroleum Distillates

IMDG

Not Regulated

IATA

Not Regulated

Section XI Regulatory Information

OSHA: Not Regulated

TSCA (Toxic Substances Control Act) Regulations: This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders. One or more of the components may be exempt from listing on the TSCA Inventory.

SARA: This material does not contain any substances in the list on Toxic Chemicals subject to Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III), in excess of the applicable de minimis concentrations as specified in Section 372.38 (a).

California Proposition 65: This product contains a chemical known to the state of California to cause cancer, birth defects or any other harm.

Section XII Other Information

Glossary: ACGIH- American Conference of Governmental Industrial Hygienist
IARC- International Agency for Research on Cancer
MSHA- Mine Safety and Health Administration
NIOSH- National Institute for Occupational Safety and Health
NTP- National Toxicology Program
OSHA- Occupational Safety and Health Administration

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