



## 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 200 – Non-Fibered Aluminum Coating

### Section I

#### Manufacturer's Name

GlobalShield, Inc.

#### Address

GlobalShield  
320 Northpoint Pkwy. Suite O  
Acworth, GA 30102

#### Emergency Telephone

800-424-9300 (ChemTrec)

#### Primary Contact

Technical Services

#### NFPA

704

#### Telephone

800-974-7663

#### Email

[info@globalshield.us](mailto:info@globalshield.us)

#### Preparer's Signature

*Jerry Solou*

### Section II Hazardous Ingredients / Identity Information

Hazardous Component	CAS#	OSHA PEL	AGGIH TLV	Other Limits	Percent
Petroleum Asphalt	8052-42-4	5 mg/m <sup>3</sup> respirable fraction	5 mg/m <sup>3</sup> fumes		<20
Mineral Spirits	8052-41-3	500 ppm	100 ppm		<50
Hydrocarbon Resin	68527-25-3	N.E.	N.E.		<10
Aluminum	7429-90-5	5 mg/m <sup>3</sup> respirable fraction	5 mg/m <sup>3</sup> fumes		<20
Mica	12001-26-2	3 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>		<15

\*\*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

#### Vapor Pressure (mm Hg)

2.1 mm Hg @ 20°C

#### Vapor Density (Air=1)

Greater than air

#### Color

Silver/gray

#### Odor

Petroleum odor

#### Specific Gravity

1.05

#### Melting Point

N/A

#### Evaporation Rate (Butyl Acetate=1)

0.1

#### Weight Per Gallon

8.73 ± 0.3

#### Solubility in Water

Insoluble

#### Appearance

Liquid

#### PH

N/A

#### Max VOC (g/l)

<500

#### Max VOC (lbs/gal)

<4.14

#### % Solids Volume

30

#### % Solids Weight

35

#### % Volatile

60

**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.
<b>If on Skin</b>	
<b>Symptoms</b>	<b>Emergency and First Aid Procedures</b>
<ul style="list-style-type: none"> <li>Possible dermatitis or allergenic reaction on repeated contact.</li> </ul>	<ul style="list-style-type: none"> <li>Remove contaminated clothes and wash with waterless hand cleaner or soap and water.</li> </ul>

**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

**For Your Protection:** GlobalShield, Inc. warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS OR SUFFICENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. THE USER SHOULD CONDUCT SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE. Liability of GlobalShield, Inc. for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with proper shipping, handling, and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.