SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Spectra Shield® Composite Materials
MSDS Number: 000000011509
Product Use Description: Composite for ballistic and structural applications.

Company: Honeywell International, Inc.
101 Columbia Road
Morristown, NJ 07962-1057

For more information call: 1-800-919-0943
1-973-455-3941
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call: Medical: 1-800-498-5701 or +1-651-523-0309
Transportation: 1-800-424-9300 or +1-703-527-3887
(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form: sheets
Color: white
Odor: odourless

Hazard Summary: No hazards resulting from the material as supplied. Can release irritating and/or toxic vapors at elevated processing temperatures or if involved in a fire.

Potential Health Effects

Skin: Contact with hot product will cause thermal burns. May cause mechanical irritation.

Eyes: Elevated processing temperatures may generate fumes and vapors which may cause irritation. May cause mechanical irritation.

Ingestion: Unlikely route of exposure. No adverse health effects are expected.

Inhalation: Unlikely route of exposure. Elevated processing temperatures may generate fumes and
vapors which may cause irritation.

Chronic Exposure : None known.
Aggravated Medical Condition : None known.

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Resin coated aramid fiber</td>
<td></td>
<td>100.00%</td>
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</table>

Note: No ingredients are hazardous according to HCS criteria.

### SECTION 4. FIRST AID MEASURES

**Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Get medical attention if irritation develops and persists.

**Skin contact** : Wash off with soap and water. In case of burns apply cold water until pain subsides then seek medical advice. Get medical attention if irritation develops and persists.

**Eye contact** : Rinse with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion** : Unlikely route of exposure.

**Notes to physician**

**Treatment** : Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

**Flash point** : no data available

**Lower explosion limit** : not applicable
### Upper explosion limit
- **not applicable**

### Suitable extinguishing media
- **Water**
- **Dry chemical**
- **Carbon dioxide (CO2)**
- **Foam**
  
  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Specific hazards during firefighting
- **None known.**
- **Hazardous decomposition products formed under fire conditions.**

### Special protective equipment for firefighters
- **Wear self-contained breathing apparatus and protective suit.**

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- **Personal precautions**: Wear self-contained breathing apparatus and protective suit.
- **Environmental precautions**: No special environmental precautions required.
- **Methods for cleaning up**: Pick up and transfer to properly labelled containers.

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**SECTION 7. HANDLING AND STORAGE**

**Handling**

- **Handling**: Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.
- **Advice on protection against fire and explosion**: Normal measures for preventive fire protection.

**Storage**

- **Further information on storage conditions**: In order to extend product shelf-life, avoid storage conditions at which temperatures can exceed 150° F (66° C).

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- **Engineering measures**: General room ventilation is adequate for storage and handling. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.
Eye protection: Safety glasses
Hand protection: Protective gloves
  When handling hot material, use heat resistant gloves.
Skin and body protection: Wear heat protective clothing for handling hot material.
Respiratory protection: No personal respiratory protective equipment normally required.
  Respiratory protection should be considered if dust is generated or if there is potential exposure to thermal processing fumes or vapors.

**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form: sheets
- Color: white
- Odor: odourless
- pH: not applicable
- Melting point/range: 147 °C (297 °F)
- Boiling point/boiling range: not applicable
- Vapor pressure: not applicable
- Relative vapour density: not applicable
- Water solubility: insoluble

**SECTION 10. STABILITY AND REACTIVITY**

- Conditions to avoid: In order to extend product shelf-life, avoid storage conditions at which temperatures can exceed 150° F (66° C).
  Avoid exposure to open flame or temperatures exceeding recommended processing conditions.
- Materials to avoid: Strong oxidizing agents
  Strong mineral acids
- Hazardous decomposition: Thermal decomposition products may include a complex
products: mixture of organic compounds, including, but not limited to:
- Hydrocarbons
- Carbon monoxide
- Carbon dioxide (CO2)
- Aldehydes
- Ketones
- Alcohols

Hazardous reactions: Hazardous polymerisation does not occur.
Curing of the composite resin may begin to occur at temperatures of 82°C (180°F) or higher.
Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Further information: Note: There is no data available for this product.

SECTION 12. ECOLOGICAL INFORMATION

Further information on ecology
Additional ecological information: We have no quantitative data concerning the ecological effects of this product.
Not inherently biodegradable.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Information: Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

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SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances Control Act : The product is an article and is exempt from Inventory listing requirements.

National regulatory information

SARA 311/312 Hazards : No SARA Hazards

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

WHMIS Classification : As an article the product does not need to be labelled according to the CPR criteria (WHMIS).

SECTION 16. OTHER INFORMATION

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<tr>
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