Material Safety Data Sheet

TotalFlash® Components High Performance Thermoplastic Polyolefin (TPO) Flashing Membrane

Manufacturer
Mortar Net Solutions®
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Section 1 - Chemical Product

Chemical Formula: Thermoplastic
Other Designations: N/A

****** Emergency Overview ******
Contains Antimony Trioxide, possible human carcinogen
Do Not allow material to enter streams or waterways per 40 CFR 122.26, "Significant Material"
Cover any exposed body areas where skin contact with molten material is possible

Section 2 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>% wt or % vol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin</td>
<td>9010-79-1</td>
<td>0-100</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>0-5</td>
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</tbody>
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Section 3 - Physical and Chemical Properties

Physical State: Solid
Water Solubility: Insoluble
Appearance and Odor: Pellet form - Essentially Odorless
% Volatility: <1%
Odor Threshold: Not Available
Specific Gravity: Not determined

Section 4 - Fire-Fighting Measures

Auto Ignition Temperature: Not Determined
Flammability Classification: 0
Extinguishing Media: Carbon Dioxide, Water Fog, Foam
Unusual Fire or Explosion Hazards: None
Fire-Fighting Instructions: Do not release pellet contaminated runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 5 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: Hazardous polymerization cannot occur.
Chemical Incompatibilities: Strong Oxidizing Agents (Antimony trioxide only-Strong acids, bases, and hot perchloric acid)
Conditions to Avoid: Same as above
Hazardous Decomposition Products: Thermal oxidative decomposition may yield carbon monoxide, carbon dioxide and low molecular weight hydrocarbons.
(1163-19-5-Hydrogen Bromide and/or Bromine, Carbon Monoxide and Carbon Dioxide)
(1309-64-4-Oxides of Antimony)
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Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: Inhalation and dermal. Low risk of entry in pellet form unless dusting occurs.

Acute Effects

Inhalation: Low hazard for usual industrial or commercial handling. Dust could cause respiratory irritation.
Eye: Low hazard for usual industrial or commercial handling. Dust could cause eye irritation.
Skin: Low hazard for usual industrial or commercial handling. Contact could cause skin irritation.
Ingestion: Is not expected to occur. If swallowed, may physically irritate digestive system.

Safety: Slipping hazard if spilled on hard, smooth walking surfaces.

Carcinogenicity

Carbon Black

IARC: Group 2B (Possibly Carcinogenic to Humans )
OSHA: No
NTP: No

Exposure Limits:

Carbon Black

OSHA: 3.5 mg/m3 TWA
ACGIH: 3.0 mg/m3 TWA

Emergency and First Aid Procedures

Inhalation: If breathing is difficult, remove to fresh air, call a physician.
Eye Contact: Flush eyes with plenty of water for at least 15 minutes, call a physician.
Skin Contact: Cleanse skin after handling. If irritation occurs consult a physician.
Ingestion: If swallowed contact a physician. Do not induce vomiting unless directed by a physician to do so.

After first aid, get appropriate in-plant paramedic, or community medical support.

Section 7 - Spill, Leak, and Disposal Procedures

Spill / Leak Procedures: Shut off source, advise authorities of possible floating material.

Containment: Do not release into sewers or waterways.

Cleanup: Place waste in box or other container suitable for recycle or disposal.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120). Plastic pellets are defined by USEPA under the Clean Water Act (40 CFR 122.26) as a “Significant Material” which may require a storm water permit.

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs, and for flame control during thermal processing. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:


Protective Clothing / Equipment: Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection
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must be worn instead of, or in conjunction with contact lenses. Cover body areas where contact with molten material may occur. Severe burns could result if molten material contacts skin.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Special Precautions and Comments
Handling Precautions: Wear gloves when material is in molten state and cover other body areas if contact is possible.
Storage Requirements: Do not store near flame or heat.

Section 10 – Regulatory Information

U.S. Federal Regulations:
SARA 313 Reporting Requirements:
Antimony Trioxide: de minimis concentration = 1.0
Decabromodiphenyl Oxide: de minimis concentration = 1.0
Lead: de minimis concentration = 0.1

CERCLA Reportable Quantities:
Antimony Trioxide RQ: 1,000 lbs.

OSHA:
- Fibrous Glass - NIOSH
- Antimony and Compounds: 29 CFR 1910.1000 “Air Contaminants”
- Toxics Substance Control Act (TSCA) Inventory:
  Components are either on the list or exempt from the list.

State Regulations:
- Antimony Trioxide (1399-64-4):
- New Jersey Right to Know Substance List (1% reporting limit)
- Massachusetts Substance List
- Pennsylvania Environmental Hazard List
- California Proposition 65: Known to the State of California to cause cancer and reproductive toxicity

Decabromodiphenyl Oxide (1163-19-5):
- New Jersey Right to Know Substance List
- Massachusetts Substance List
- Pennsylvania Environmental Hazard List

Fibrous Glass (65997-17-3):
- New Jersey Right to Know Substance List
- Massachusetts Substance List
- California Proposition 65

Carbon Black (1333-86-4):
- New Jersey Right to Know Substance List
- Massachusetts Substance List
- California Proposition 65
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International Regulations:
Materials contained in this product that are listed on the following international lists:

Canadian-DSL/NDSL:
All materials

EU-EINECS/ELINCS:
All materials

Australian-Designated Hazardous Substance List:
1309-64-4 Antimony Trioxide

DOT Transportation Data (49 CFR 172.101)

Shipping Name: TPO-9203-90 GRAY UV
Prepared By: Safety Department
Revision Notes: Any questions call 724-206-4282
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