Section 1: Chemical Product and Company Identification

TRADE NAME: TotalFlash® Rubberized Asphalt  
LABEL: TW60 WATERPROOFING MEMBRANE  
USE & DESCRIPTION: Rolled Waterproofing  
CHEMICAL FAMILY: Mixture  

MANUFACTURED BY: Mortar Net Solutions™  
6575 Daniel Burnham Drive Suite G  
Portage, IN 46368  
Tel: (800) 664-6638  Fax: (219) 787-5088  
Website: www.mortarnet.com

Section 2: Hazards Identification

SIGNAL WORD: Danger  
GHS CLASSIFICATION:  
- Carcinogenicity – Category 1A  
- Skin Irritation – Category 2  
- Eye Irritation – Category 2B  
- Specific Target Organ Toxicity, Repeated Exposure – Category 1

HAZARD STATEMENTS:  
May cause cancer.  
Causes skin and eye irritation.  
Causes damage to organs through prolonged or repeated exposure.  
Additional hazard information: Can cause silicosis and other permanent lung damage.

PRECAUTIONARY STATEMENTS:  
Prevention  
Obtain special instructions before use.  
Do not breathe dust.  
Do not eat, drink or smoke when using this product.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash hands and exposed skin thoroughly after handling.

Response  
If on skin: Wash with plenty of water.  
Get medical advice/attention: If exposed or concerned or you feel unwell, if eye and or skin irritation persists.  
Specific treatment: See section 4-First Aid  
In case of fire: See Section 5. Take off contaminated clothing and wash before reuse.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage  
Store locked up.

Disposal  
Dispose in accordance with Federal, State, and Local regulations. (See Section 13 for additional information).

Section 3: Compositon/Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>40-50</td>
</tr>
<tr>
<td>Limestone*</td>
<td>1317-65-3</td>
<td>40-50</td>
</tr>
<tr>
<td>Styrene Butadiene Copolymer</td>
<td>903-55-8</td>
<td>10-15</td>
</tr>
<tr>
<td>Contains Crystalline Silica Quartz</td>
<td>14808-60-7</td>
<td>0-1</td>
</tr>
</tbody>
</table>

*Contains Crystalline Silica Quartz
Section 4: First Aid Measures

**EYE CONTACT:** Immediately flush eyes with plenty of cool water for at least 20 minutes, occasionally lifting the eye lids to ensure thorough rinsing. Get medical attention if irritation persists.

**SKIN CONTACT:** Clean any exposed skin with warm soapy water if possible. If not, and a waterless hand cleaner is used, it should be without pumice. Do not use solvents or thinners to remove material from skin. Get medical attention if irritation persists or develops.

**INGESTION:** If swallowed, do not induce vomiting. If vomiting occurs, keep head lower than hips to avoid aspiration of vomit into the lungs which can cause inflammation or pneumonitis. Call poison control center or get immediate medical attention.

**INHALATION:** If inhalation of cured product particles, fumes, vapors, or mist occurs, remove person to fresh air. Drink water to clear throat or blow nose to clear. If not breathing, give artificial respiration or give oxygen by trained personnel and get immediate medical attention.

**NOTES TO PHYSICIAN:** Treatment should be based on removing the source of irritation with treatment of symptoms as necessary.

Section 5: Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Dry chemical, CO₂, or foam fire extinguisher should be used. Avoid use of straight-stream water.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should not enter confined spaces without wearing a National Institute for Occupational Safety and Health (NIOSH) approved positive pressure self-contained breathing apparatus (SCBA) with full face mask and full protective equipment. Water may be used to cool containers in a fire-exposed area.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** When heated, fumes may burn if ignition source is provided. Petroleum asphalt fumes can explode if emitted in an enclosed environment and supplied with an ignition source. Burning product may cause thick black smoke.

SEE SECTION 10 FOR COMBUSTION PRODUCTS

Section 6: Accidental Release Measures

**PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED:** Pick up large pieces. Do not dry sweep dusts or blow with air in confined area.

**WASTE DISPOSAL METHODS:** Dispose in accordance with applicable Federal, State, and Local regulations. Do not burn.

Section 7: Handling and Storage

**STORAGE TEMPERATURE:** Store away from heat and all ignition sources and open flames in accordance with applicable laws and regulations. **THIS PRODUCT SHOULD NOT BE HEATED OR BURNED USING A DIRECT FLAME DEVICE.**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Follow recommended work practices and use recommended personal protective clothing and equipment. See Section 8 of this MSDS.

Section 8: Exposure Control/Personal Protection

**EXPOSURE LIMITS**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>OSHA</th>
<th>ACGIH</th>
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<th>Unit</th>
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<td>Raw Products</td>
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<td>TWA</td>
<td>STEL</td>
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<td>8052-42-4</td>
<td>NE</td>
<td>NE</td>
<td>0.5**</td>
<td>NE</td>
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<tr>
<td>Limestone†</td>
<td>1317-65-3</td>
<td>15/5**</td>
<td>NE</td>
<td>10/3***</td>
<td>NE</td>
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<tr>
<td>†Contains Crystalline Silica Quartz 14808-60-7 See 1910.1000 Table Z.3</td>
<td>NE</td>
<td>0.025</td>
<td>NE</td>
<td>mg/m³</td>
<td></td>
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</tbody>
</table>
Safety Data Sheet
TotalFlash® Rubberized Asphalt

NE= Not established
Note: Due to the form of the product, hazardous exposures from this product are not expected to occur. Gloves must be worn when handling and adequate ventilation must be provided during roofing related activities.

** Asphalt Fume as benzene-soluble inhalable aerosol (Bitumen)
I = Inhalable Fraction
*** Total Nuisance Dust/Respirable Dust

RESPIRATORY PROTECTION: Normally not needed in well-ventilated areas. If applicable exposure standards are exceeded or can be exceeded, use a NIOSH approved air-purifying respirator. If concentrations are sufficiently high that this respirator is inadequate, or high enough to cause oxygen deficiency, use a positive pressure self-contained breathing apparatus (SCBA). Follow all applicable respirator/SCBA use, fitting, training standards and regulations.

VENTILATION: Use only with adequate ventilation to maintain exposures below applicable exposure limits. Local exhaust ventilation and/or enclosure of the process may be required. All equipment must be explosion proof.

EYE PROTECTION: Chemical safety goggles with side-shields or face shield must be used if eye contact is possible.

SKIN: Chemical resistant gloves, apron, or other protective clothing needed to prevent skin contact. Must wear leather or heat-resistant gloves, long-sleeve cotton shirt, long pants with no cuffs, and non-skid shoes or boots with 6-inch leather uppers during application and/or tear off activities.

Section 9: Physical and Chemical Properties

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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
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<td>Appearance and Odor:</td>
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<td>Odor Threshold</td>
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<td>pH:</td>
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<td>Melting Point:</td>
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<td>Flash Point:</td>
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<td>Viscosity:</td>
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<tr>
<td>Decomposition Temperature:</td>
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Upper/Lower Flammability or Explosive

<table>
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<tr>
<td>Vapor Pressure:</td>
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<td>Vapor Density (Air = 1):</td>
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<td>Specific Gravity/Relative Density:</td>
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<td>Solubility (IES):</td>
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<td>Evaporation Rate (Butyl Acetate = 1):</td>
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<td>Flammability(Solid and Gas):</td>
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<tr>
<td>Partition Coefficient: N-Octanol/Water:</td>
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Section 10: Stability and Reactivity

STABILITY: Stable

REACTIVITY: Reactivity will not occur.

CONDITIONS TO AVOID: Keep from heat, sparks, open flame and other sources of ignition. Avoid contact with strong oxidizing agents.

HAZARDOUS REACTION: Polymerization will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids or bases, oxidizing agents and selected amines.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, ozone, hydrogen sulfide, oxides of sulfur and various hydrocarbons. These combustion products are not expected unless product is heated or burned.

Section 11: Toxicological Information

EYE – Can cause eye irritation.

SKIN – Can cause skin irritation.

INHALATION – Dust may cause upper respiratory irritation.

INGESTION – May cause harmful effects if swallowed.
THE FOLLOWING COMPONENT DATA IS PROVIDED FOR USER INFORMATION:

SILICA

Cancer - This product contains crystalline silica (quartz). IARC has determined that crystalline silica inhaled in the form of quartz from occupational sources is carcinogenic to humans (Group 1). IARC concluded that there was sufficient evidence in humans and animals for the carcinogenicity of inhaled crystalline silica in the form of quartz from occupational sources. The NTP has classified silica as known to be a human carcinogen. The physical nature of this product may help limit any inhalation hazard from crystalline silica during application and in its hardened state. However, physical forces such as sawing, grinding, drilling and other demolition work on this product may liberate crystalline silica dust.

Acute Effects - Exposure to silica dust can cause irritation of the eyes, nose and throat. Exposure to high concentrations can also cause Accelerated Silicosis causing progressive shortness of breath, fever, coughing, and weight loss.

Chronic Effects - In addition to cancer, breathing of silica over a period of time can cause damage to the lung tissue or silicosis after long exposure at low concentrations causing shortness of breath, fever, coughing, and weight loss. Prolonged and repeated exposure to respirable silica-containing dust may cause autoimmune disease, kidney disease, tuberculosis, and nonmalignant respiratory disease, and bronchitis.

ASPHALT

Cancer - This product contains asphalt. The National Institute for Occupational Safety and Health has concluded that the fumes of heated roofing asphalt are a potential occupational carcinogen. Asphalt may also cause irritation of the respiratory tract. The physical nature of this product may help limit any inhalation hazard from asphalt during application in its hardened state. However, physical forces such as sawing, grinding, drilling and other demolition work on this product may liberate dust containing oxidized asphalt. Burning or heating of the product may cause fumes, vapors or mists.

Acute Effects - Inhalation of dust, fumes, vapors, mist may cause nose, throat, and mucous membrane irritation. Eye contact may cause severe irritation, redness, tearing, and blurred vision. If ingested, may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea. See Section 8 for exposure controls.

Chronic Effects - In addition to cancer, prolonged or repeated skin contact may result in dryness and irritation of the skin. Long term skin exposure to asphalt can increase sensitivity to the sun, and may cause discoloration. Oxidized asphalt may also cause irritation of the respiratory tract.

Section 12: Ecological Information

Ecotoxicity – No data available
Persistence and degradability – No data available
Bioaccumulative potential – No data available
Mobility in soil – No data available
Other adverse effects (GHG, Ozone) - No data available

Section 13: Disposal Considerations

This product has not been regulated as a hazardous waste by the USEPA. Dispose in accordance with Federal, State, and Local regulations.
Section 14: Transport Information

This product is not regulated as a hazardous material for transport under 49 CFR or for vessel transport under the IMDG Code.

DOT PROPER SHIPPING NAME: Not Applicable
DOT HAZARD CLASSIFICATION: Not Applicable
DOT LABELING REQUIREMENTS: Not Applicable
UN/NA NUMBER: Not Applicable
PACKING GROUP: Not Applicable
IMDG CODE: Not Applicable
IMDG SHIPPING NAME: Not Applicable
IMDG HAZARD CLASS: Not Applicable
UN/ID NUMBER: Not Applicable
PACKING GROUP NUMBER: Not Applicable

Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA): Some components in this product are listed on the TSCA Inventory.
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA): None
SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III:
Section 302 Extremely Hazardous Substances: None
Section 311/312 Hazard Categories: Immediate Health; Delayed Health; Fire Hazard
Section 313 Reportable Ingredients: None

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16: Other Information

HMIS Rating:

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<td>Health</td>
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<td>Flammability</td>
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NFPA Rating:

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KEYS: 4=Severe; 3=Serious; 2=Moderate; 1=Slight; 0=Minimal

Preparation Date: April 2015

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The information and recommendations are offered for the user’s consideration and examination, and it is the user’s responsibility to satisfy his or herself that they are suitable and complete for the user’s particular use.