SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
   - Product name: 838 TOP
   - Product form: Mixture
   - Product code: 001 838 TOP 062015
   - Other means of identification: Acrylic Coating, Elastomeric Coating

1.2. Relevant identified uses of the substance or mixture and uses advised against
   - Use of the substance/mixture: Roof Coating

1.3. Details of the supplier of the safety data sheet
   - 838 Coatings, LLC
   - 12800 State HWY 13, STE 400
   - Savage, MN 55378
   - Telephone: (763) 972-9441

1.4. Emergency telephone number
   - Emergency number: Chemtrec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   - GHS-US classification
     - Skin Irrit. 2: H315
     - Eye Irrit. 2B: H320
     - Carc. 2: H351
     - Repr. 1B: H360

2.2. Label elements
   - GHS-US labelling
     - Hazard pictograms (GHS-US): ![](danger.png)
     - Signal word (GHS-US): Danger
     - Hazard statements (GHS-US):
       - H315 - Causes skin irritation
       - H320 - Causes eye irritation
       - H351 - Suspected of causing cancer
       - H360 - May damage fertility or the unborn child
     - Precautionary statements (GHS-US):
       - P201 - Obtain special instructions before use
       - P202 - Do not handle until all safety precautions have been read and understood
       - P264 - Wash hands, forearms and face thoroughly after handling
       - P280 - Wear eye protection, face protection, protective clothing, protective gloves
       - P302+P352 - If on skin: Wash with plenty of soap and water
       - P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
       - P308+P313 - If exposed or concerned: Get medical advice/attention
       - P321 - Specific treatment (see first aid instructions on this label)
       - P322+P323 - If skin irritation occurs: Get medical advice/attention
       - P337+P313 - If eye irritation persists: Get medical advice/attention
       - P362 - Take off contaminated clothing and wash before reuse
       - P405 - Store locked up
       - P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards
   - No additional information available

2.4. Unknown acute toxicity (GHS-US)
   - No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
   - Not applicable
3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene acrylic copolymer</td>
<td>(CAS No) 25036-16-2</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>(CAS No) 13463-67-7</td>
<td>3 - 7</td>
</tr>
<tr>
<td>Tetrapotassium pyrophosphate</td>
<td>(CAS No) 7320-34-5</td>
<td>0.5 - 1.5</td>
</tr>
<tr>
<td>Carbendazim (ISO), methyl benzimidazol-2-ylcarbamate</td>
<td>(CAS No) 10605-21-7</td>
<td>0.01 - 0.1</td>
</tr>
<tr>
<td>Diuron (ISO), 3-(3,4-dichlorophenyl)-1,1-dimethylurea</td>
<td>(CAS No) 330-54-1</td>
<td>0.01 - 0.1</td>
</tr>
<tr>
<td>Benzophenone</td>
<td>(CAS No) 119-61-9</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes skin irritation. Causes eye irritation. Suspected of causing cancer. May damage fertility. May damage the unborn child.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

Chronic symptoms : Suspected of causing cancer. May damage fertility. May damage the unborn child.

4.3. Indication of any immediate medical attention and special treatment needed

Excessive exposure can cause pulmonary edema.

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture

Fire hazard : The product is not easily ignited.

Explosion hazard : Product is not explosive.

Reactivity : No data available.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containment and cleaning up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up: Product may create slip hazard. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Provide good ventilation in process area to prevent formation of vapor. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe vapours. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep from freezing. Store in a well-ventilated place.
Storage temperature: 10 - 26.67 °C (50 - 80 °F)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (mg/m³)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbendazim (ISO), methyl benzimidazol-2-ylcarbamate (10605-21-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remark (ACGIH)</td>
<td></td>
<td>OELs not established</td>
</tr>
<tr>
<td>Remark (OSHA)</td>
<td></td>
<td>OELs not established</td>
</tr>
<tr>
<td>Benzophenone (119-61-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remark (ACGIH)</td>
<td></td>
<td>OELs not established</td>
</tr>
<tr>
<td>Remark (OSHA)</td>
<td></td>
<td>OELs not established</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH TWA (mg/m³)</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>15 mg/m³ total dust</td>
<td></td>
</tr>
<tr>
<td>Styrene acrylic copolymer (25036-16-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remark (ACGIH)</td>
<td>OEL's not established</td>
<td></td>
</tr>
<tr>
<td>Remark (OSHA)</td>
<td>OEL's not established</td>
<td></td>
</tr>
<tr>
<td>diuron (ISO), 3-(3,4-dichlorophenyl)-1,1-dimethylurea (330-54-1)</td>
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<td>ACGIH TWA (mg/m³)</td>
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<td>OELs not established</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment: Gloves. Protective goggles. Protective clothing.

Hand protection: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection: Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection: Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Heavy.
Color: White.
Odor: Slight ammonia odor.
Odor Threshold: No data available
pH: 8.5 - 9.5
Relative evaporation rate (butylacetate=1): 1
Melting point: No data available
Freezing point: No data available
Boiling point: 100 °C (212 °F)
Flash point: ≥ 115.56 °C (> 240 °F) TCC
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: ≥ 1 (air = 1)
Relative density: 1.46 (water = 1)
Solubility: Miscible with water.
Viscosity: 12,000 – 16,000 cPs
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information

VOC content: < 50 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
No data available.

10.5. Incompatible materials
Strong oxidizers.

10.6. Hazardous decomposition products
Carbon monoxide (CO), carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified
Skin corrosion/irritation: Causes skin irritation.
pH: 8.5 - 9.5
Serious eye damage/irritation: Causes eye irritation.
pH: 8.5 - 9.5
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Suspected of causing cancer.
838 TOP
Safety Data Sheet
Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Benzophenone (119-61-9)</th>
<th>2B - Possibly carcinogenic to humans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>2B - Possibly carcinogenic to humans</td>
</tr>
</tbody>
</table>

IARC group

Reproductive toxicity: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Symptoms/injuries after inhalation: May cause respiratory irritation.
Symptoms/injuries after skin contact: Causes skin irritation.
Symptoms/injuries after eye contact: Causes eye irritation.
Symptoms/injuries after ingestion: May cause gastrointestinal irritation.
Chronic symptoms: Suspected of causing cancer. May damage fertility. May damage the unborn child.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: No information available.

12.2. Persistence and degradability
838 TOP
Persistence and degradability: No information available.

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods: Do not discharge to public wastewater systems without permit of pollution control authorities.
No discharge to surface waters is allowed without an NPDES permit.
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT
Not hazardous for transport
Additional information
Other information: No supplementary information available.

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations
838 TOP
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory
SARA Section 311/312 Hazard Classes
Immediate (acute) health hazard
Delayed (chronic) health hazard

Styrene (100-42-5)
CERCLA RQ: 1000 lb
Section 313: Listed on US SARA Section 313
15.2. International regulations
No additional information available.

15.3. US State regulations
California Proposition 65
WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>U.S. - California - Prop 65 - Carcinogens List</th>
<th>U.S. - California - Prop 65 - Developmental Toxicity</th>
<th>U.S. - California - Prop 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Prop 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
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<tbody>
<tr>
<td>1,4-Dioxane (123-91-1)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
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<td>Benzophenone (119-61-9)</td>
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<td>No</td>
<td>No</td>
<td></td>
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<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Silica: Crystalline, quartz (14808-60-7)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Diuron (ISO), 3-(3,4-chlorophenyl)-1,1-dimethylurea (330-54-1)</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>
### Formaldehyde (50-00-0)

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<tr>
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<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
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### Acetaldehyde (75-07-0)

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<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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### Ethylene oxide (75-21-8)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

### Styrene (100-42-5)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</th>
</tr>
</thead>
</table>

### Silica, amorphous, precipitated and gel (112926-00-8)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List</th>
<th>U.S. - Massachusetts - Right To Know List</th>
</tr>
</thead>
</table>

### 1,4-Dioxane (123-91-1)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</th>
</tr>
</thead>
</table>

### Zinc oxide (1314-13-2)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</th>
</tr>
</thead>
</table>

### Limestone (1317-65-3)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
</tr>
</thead>
</table>

### Ammonium hydroxide (1336-21-6)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</th>
</tr>
</thead>
</table>

### Aluminum oxide (1344-28-1)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</th>
</tr>
</thead>
</table>

### Titanium dioxide (13463-67-7)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List</th>
</tr>
</thead>
</table>

### n-Butyl acrylate (141-32-2)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
</tr>
</thead>
</table>

### Ammonium benzoate (1863-63-4)

<table>
<thead>
<tr>
<th></th>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List</th>
</tr>
</thead>
</table>
**Diuron (ISO), 3-(3,4-dichlorophenyl)-1,1-dimethylurea (330-54-1)**
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List

**Formaldehyde (50-00-0)**
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

**1,2-Propylene glycol (57-55-6)**
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

**Acetaldehyde (75-07-0)**
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Massachusetts - Right To Know List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

**Ethylene oxide (75-21-8)**
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Massachusetts - Right To Know List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

**Silica, amorphous (7631-86-9)**
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Massachusetts - Right To Know List
- U.S. - Pennsylvania - RTK (Right to Know) List

**Cellulose (254504001-5906)**
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

**SECTION 16: Other information**

**Indication of changes**
- Revision 1.0: New SDS Created.
- 09/09/2015

**Other information**
- Author: ANF.

**NFPA health hazard**
- 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA fire hazard**
- 1 - Must be preheated before ignition can occur.

**NFPA reactivity**
- 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

**HMIS III Rating**
- Health: 2*
- Flammability: 1
- Physical: 0
- Personal Protection:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.