SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: Asphalt Rolled Roofing
SDS NUMBER: 102
PRODUCT DESCRIPTION: Asphalt Saturated Organic Base Sheets
CHEMICAL FAMILY: Mixture
PRODUCT USE: Weatherproofing
TRADE NAME (S): Organic Base Sheet (#43)
MANUFACTURER: Tarco
One Information Way
Suite 225
Little Rock, AR 72202
United States
www.tarcoroofing.com
tarco@tarcoroofing.com

TELEPHONE (TECHNICAL) (800) 365-4506 (8:00 AM – 5:00 PM - US Central Time) Monday - Friday
TELEPHONE (EMERGENCY) (800) 424-9300 (Chemtrec, in English)

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Overview All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, the product listed in this SDS is not expected to pose a physical hazard or health risk to humans. This product does not contain any form of asbestos materials.
Prevention Avoid breathing dust.
Storage/Disposal Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Route of Exposure Inhalation, Skin, Eye, Ingestion

POTENTIAL HEALTH EFFECTS:
Inhalation Not expected under normal conditions of use. However, extreme exposures to dust may cause upper respiratory irritation.
Skin Not expected under normal conditions of use. Repeated contact may cause skin irritation due to roughness of product. Redness, drying and cracking of the skin (dermatitis) may occur following prolonged and repeated contact. Prolonged or repeated skin contact could result in absorption of hazardous components.
Ingestion Not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.
Eyes Not expected under normal conditions of use. If dust enters eye, may cause irritation resulting in tearing, stinging, redness or swelling.
Carcinogenicity When used under normal conditions, this product is not considered a carcinogen.
HAZARD RATING (NFPA)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>HEALTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

NFPA – National Fire Protection Association

HMIS® is a registered trademark of the American Coatings Association

Degree of Hazard
0 - Minimal (Insignificant)
1 - Slight
2 - Moderate
3 - Serious (High)
4 - Severe (Extreme)

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>COMMON NAME</th>
<th>CAS NUMBER</th>
<th>PERCENT BY WEIGHT</th>
</tr>
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<tbody>
<tr>
<td>Asphalt</td>
<td>Asphalt Flux</td>
<td>8052-42-4</td>
<td>8-20</td>
</tr>
<tr>
<td>Oxidized Asphalt</td>
<td>Coating Asphalt</td>
<td>64742-93-4</td>
<td>14-30</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>Limestone</td>
<td>1317-65-3</td>
<td>2-8</td>
</tr>
<tr>
<td>Organic Felt</td>
<td>Paper</td>
<td>NA</td>
<td>8-20</td>
</tr>
<tr>
<td>Coal Slag Fines</td>
<td>Slag</td>
<td>68476-96-0</td>
<td>5-25</td>
</tr>
</tbody>
</table>

Note:
NA = Not Available
NE = Not Established

SECTION 4 – FIRST AID MEASURES

INHALATION
Exposure to dust may cause irritation of the nose and throat. Drink water to clear throat or blow nose to clear. Remove to fresh, uncontaminated air. Give artificial respiration and/or oxygen by trained personnel, if necessary and get immediate medical attention.

SKIN
Remove contaminated clothing and wash exposed skin with soap and water. If irritation develops or persists, seek medical attention. If contacted by hot asphalt, cool with ice or water; do not attempt to remove the asphalt material immediately; seek medical attention.

INGESTION
If product is ingested, 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. Get immediate medical attention.

EYES
If material comes into contact with the eyes, immediately flush with plenty of cool water for at least 20 minutes preferably at an eye wash fountain or until irritation subsides, occasionally lifting the eye lids to ensure thorough rinsing. If irritation develops or persists, seek medical attention.

NOTES TO PHYSICIANS/ FIRST AID PROVIDERS
Treatment must be based on removing the source of irritation with treatment of symptoms as necessary. Water-Jel products have been shown to be effective in removing asphalt.
SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
Water spray, Foam, Carbon Dioxide, Dry Chemical.

UNSUITABLE- EXTINGUISHING MEDIA
No data available

HAZARDOUS COMBUSTION- PRODUCTS
Carbon Dioxide, Carbon Monoxide. If burned, the material could release toxic fumes and smoke.

FIRE FIGHTING- PROCEDURES
Combustible. Avoid breathing fumes. Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

FIRE FIGHTER PROTECTION
Firefighters should not enter confined space without wearing NIOSH-approved self-contained breathing apparatus with full face mask and protective equipment.

UNUSUAL FIRE AND- EXPLOSION HAZARDS
When heated, fumes may burn if ignition source is provided. Burning the products will yield thick, black smoke. Petroleum asphalt fumes can explode if emitted in an enclosed environment and supplied with an ignition source.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Not applicable

EMERGENCY PROCEDURES
Not applicable

ENVIRONMENTAL- PRECAUTIONS
No data available

CLEAN-UP PROCEDURES
Pick up large pieces. Vacuum dust. If sweeping is necessary, avoid creating dusts by using a dust suppressant such as water. This will help to minimize potential exposures.

WASTE DISPOSAL METHOD
Scoop up material and dispose in accordance with Federal, State, and local regulations. Do not burn.

SECTION 7 – HANDLING AND STORAGE

HANDLING PROCEDURES
Use this product with adequate ventilation. When handling uncontained material, use personal protective equipment as described in Section 8 of this SDS.

STORAGE PROCEDURES
Store material in accordance with instructions on the product packaging, if any. Material should be kept clean, dry, and in original packaging. Keep this product away from heat, sparks, ignition sources, and open flames in accordance with applicable laws and regulations.

SPECIAL PACKAGING- MATERIALS
No data available

INCOMPATIBLE MATERIALS
This product will react with strong oxidizing agents, reducing agents, strong acids and alkalis.

OTHER PRECAUTIONS
Do not breathe dusts generated from cutting this material. Comply with OSHA and other safety standards and codes for roof work. Always use Fall Protection Systems when working on roofs. Product may be slippery when wet, dusty or covered with water, ice, dew, frost, or snow.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY- PROTECTION
Not needed under normal use conditions. If exposure limits are exceeded, use a NIOSH approved respirator. Follow all applicable respirator use, fitting, and training standards and regulations.
EYES/FACE PROTECTION
Safety glasses with side shields are recommended

HANDS PROTECTION
Leather or cotton gloves recommended when handling to protect against mechanical abrasion. Promptly clean hands with waterless hand cleaner, clean fingernails and wash with soap and water after handling.

SKIN/BODY PROTECTION
Normal work clothing (long sleeved shirts, long pants, and non-slip shoes or boots with 6-inch leather uppers) is recommended during application and/or tear-off activities.

OTHER PROTECTIVE-EQUIPMENT
Should be provided as necessary to prevent irritation of the throat, eyes, and skin and to keep exposures below the applicable exposure limits identified in this section.

WORK HYGIENE-PRACTICES
Use good industrial hygiene practices when handling the material. Wash exposed skin prior to eating, drinking or smoking and at the end of the shift. Wash work clothes separately from other clothing.

EXPOSURE GUIDELINES
Handle using methods and techniques that minimize dust or fume generation.

ENGINEERING CONTROLS/VENTILATION
Not needed under normal conditions of use.

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<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>COMMON NAME</th>
<th>CAS NUMBER</th>
<th>EXPOSURE LIMIT</th>
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<td>ACGIH (TWA)</td>
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<tr>
<td>Asphalt</td>
<td>Asphalt Flux</td>
<td>8052-42-4</td>
<td>0.5 mg/m³</td>
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<tr>
<td>Oxidized Asphalt</td>
<td>Coating Asphalt</td>
<td>64742-93-4</td>
<td>0.5 mg/m³</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>Limestone</td>
<td>1317-65-3</td>
<td>10 mg/m³</td>
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<tr>
<td>Organic Felt</td>
<td>Paper</td>
<td>NA</td>
<td>NE</td>
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<tr>
<td>Coal Slag Fines</td>
<td>Slag</td>
<td>68476-96-0</td>
<td>10 mg/m³</td>
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Note:
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NE = Not Established

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical Form</th>
<th>Appearance</th>
<th>Taste</th>
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<tbody>
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<td></td>
<td>Sheet in roll form</td>
<td>Odor</td>
<td>Petroleum odor</td>
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<td>Color</td>
<td>Black</td>
<td>Odor Threshold</td>
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<td>Boiling Point</td>
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<td>Vapor Pressure</td>
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<td>Melting Point</td>
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<td>Vapor Density</td>
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<td>Freezing Point</td>
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<tr>
<td>Density</td>
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<td>VOC (Volume)</td>
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<td>Volatiles (Volume)</td>
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<tr>
<td>pH (Undiluted Product)</td>
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<td>Flash Point</td>
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## SECTION 10 – STABILITY AND REACTIVITY

### THERMAL STABILITY
Stable under normal conditions of use.

### HAZARDOUS DECOMPOSITION
Upon decomposition this product may form carbon dioxide, carbon monoxide, oxides of sulfur and various hydrocarbons during heating or burning.

### HAZARDOUS POLYMERIZATION
Will not occur.

### CONDITIONS TO AVOID
Keep this product away from heat, sparks, ignition sources, and open flames in accordance with applicable laws and regulations.

### INCOMPATIBLE MATERIALS
This product will react with strong acids and alkalis, strong oxidizing agents, reducing agents, and selected amines.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### ACUTE EFFECTS
Repeated contact may cause skin irritation due to roughness of product. If dust enters eye, may cause irritation resulting in tearing, stinging, redness or swelling. Inhalation of dust, fumes and/or vapor may cause scratchy throat and/or slight coughing. If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

### CHRONIC EFFECTS
Redness, drying and cracking of the skin (dermatitis) may occur in the case of prolonged and repeated contact. Extreme exposures to fumes may cause upper respiratory irritation. Silicosis (Pulmonary Fibrosis or severe lung scarring) may occur if exposed to high levels of repeated encounters with dust.

### COMPONENT ANALYSIS

#### Asphalt
(CAS Number: 8052-42-4)
Fumes from the heating of roofing asphalt have been determined to be potential occupational carcinogen by the National Institute of Occupational Safety and Health (NIOSH).

#### Oxidized Asphalt
(CAS Number: 64742-93-4)
Occupational exposures to oxidized asphalt and its emissions during roofing have been determined by the International Agency for Research on Cancer (IARC) as ‘probably carcinogenic to humans’.

## SECTION 12 – ECOLOGICAL INFORMATION

### ECOTOXICITY
No data available for this product

### PERSISTENCE/DEGRADABILITY
No data available for this product

### BIOACCUMULATION-POTENTIAL
No data available for this product

### MOBILITY IN SOIL
No data available for this product

### OTHER ADVERSE EFFECTS-
(GHG, OZONE) No data available for this product

SECTION 13 – DISPOSAL CONSIDERATIONS

PRODUCT INFORMATION This product, as supplied, is not expected to be a hazardous waste when it is disposed of according to the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations.

DISPOSAL INSTRUCTIONS Dispose of waste material in accordance with Federal, State, and Local environmental regulations.

RCRA CLASS None

SECTION 14 – TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
Proper Shipping Name N/A
Hazard Class N/A
ID Number N/A
Packing Group N/A
Label Statement N/A
Other N/A

INTERNATIONAL TRANSPORT REGULATIONS:
This product is not classified as dangerous goods according to international transport regulations.
UN Number N/A
UN Proper Shipping Name N/A
Packing Group N/A
Environmental Hazards N/A
Transport in Bulk N/A
Special Precautions N/A

SECTION 15 – REGULATORY INFORMATION

INTERNATIONAL REGULATIONS
These products are not considered articles per international product regulations and as such, these products do not require registration or notification on the various country-specific inventories.

U.S. FEDERAL REGULATIONS
TSCA This product contains some components that are listed on the TSCA 8(b) inventory
CERCLA None
SARA
Section 302 None of the product components are listed under this section
Section 311/312 Acute Health: Yes; Chronic Health: Yes
Section 313 None of the product components are listed under this section

STATE REGULATIONS Component Analysis – State: The following components appear on one or more of the following state hazardous substances lists.

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>COMMON NAME</th>
<th>CAS NUMBER</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>Asphalt Flux</td>
<td>8052-42-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Oxidized Asphalt</td>
<td>Coating Asphalt</td>
<td>64742-93-4</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>Calcium Carbonate</td>
<td>Limestone</td>
<td>1317-65-3</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Note:**
- TSCA: Toxic Substances Control Act
- CERCLA: Comprehensive Environmental Response Compensation and Liabilities Act
- SARA: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III
- Section 302: Extremely Dangerous Hazardous Substances
- Section 311/312: Immediate health; Delayed health; Fire hazard
- Section 313: Reportable Ingredients

**SECTION 16 – OTHER INFORMATION**

**DATE OF PREPARATION**
November 11, 2019

**DATE OF LAST REVISION**
January 16, 2019

**CHANGES SINCE LAST-REVISION**
- Removal of Crystalline Silica as a component in sections 3, 8, and 15
- Addition of Coal Slag Fines as a component in sections 3 and 8
- Removal of Crystalline Silica from the component analysis in Section 11
- Removal of California Prop 65 language in Section 15

**PREPARED BY**
Tarco

**DISCLAIMER**
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