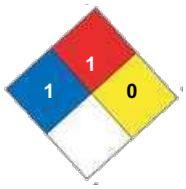
INNOVATIONS FOR LIVING™

| Personal Protective Equipment | | | | | WHMIS Pictograms | DOT Pictograms |
|---|---|---|---|---|---|---|
|  |  |  |  |  |  | Not Regulated |
| Chemical Splash Goggles | Safety Glasses | Protective Gloves | Face shield | Half Face Respirator | D2B Toxic | |

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product Name: | **Oxidized Asphalt** |
| MSDS Manufacturer Number: | 13629-NAM |
| Synonyms: | Burial Vaults, Coating, Culvert Compound, Dead Level, Industrial and Shingle Laminating, Mineral Rubber, Pipe Coatings, Potting Compound, Pond Lining Asphalt, Shingle Adhesive, Waterproofing; ASTM D-312 Mopping Asphalts; BURA (Types 1, 2, 3 & 4) or (Types I, II, III & IV), TruLo® Lo Odor, TruLo® Max |
| Manufacturer Name: | Owens Corning Roofing and Asphalt, LLC |
| Address: | One Owens Corning Parkway<br>Toledo, OH 43659 |
| Customer Service Phone Number: | 1-800-GET-PINK or 1-800-438-7465 |
| Health Issues Information: | 1-419-248-8234 (8am-5pm ET) |
| Technical Product Information: | 1-800-GET-PINK or 1-800-438-7465 |
| Emergency Phone Number: | 1-419-248-5330 (after 5pm ET and weekends) |
| CHEMTREC: | 800-424-9300 (24 hours everyday) |
| Canutec: | (613) 996-6666 (Canada 24 hours everyday) |
| Website: | www.owenscorning.com |
| MSDS Creation Date: | January 11, 1996 |
| MSDS Revision Date: | August 12, 2010 |
| MSDS Format: | According to ANSI Z400.1-2004 |

**NFPA**




**HMIS**

| | |
|---|---|
| Health Hazard | 1* |
| Fire Hazard | 1 |
| Reactivity | 0 |
| Personal Protection | X |

* Chronic Health Effects

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS# | Ingredient Percent |
|---|---|---|
| Asphalt, oxidized | 64742-93-4 | 100 % |

## SECTION 3 - HAZARDS IDENTIFICATION

**Applies to Product**

Emergency Overview:

Upon heating, hydrogen sulfide gas may be released from this material. Vapor spaces in tanks and shipping containers containing hot asphalt or asphalt products may accumulate hydrogen sulfide vapors at harmful concentrations.

Route of Exposure:

Eye contact
Skin contact
Inhalation
Ingestion

Potential Health Effects:

Eye:

**Hot Material:**
Contact with hot material may result in pain, tears, swelling, redness blurred vision and thermal burns.
**Cold Material:**
Cool material may cause eye irritation.

Skin:

**Hot Material:**
Contact with hot product may cause thermal burns.
**Cold Material:**

| | |
|---|---|
| | Cool material will cause minor skin irritation.<br>Prolonged or repeated contact may cause dryness and skin irritation.<br>Long term skin exposure to asphalt can increase sensitivity to the sun, and may cause discoloration. |
| Inhalation: | **Hot Material:**<br>Fumes from hot material can be unpleasant and may produce nausea and irritation of the upper respiratory tract.<br>Substance contains sulfur which may form hydrogen sulfide (H2S).<br>Exposure to H2S may result in respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat, and chest, confusion and unconsciousness.<br>H2S concentration of 1000-2000 ppm can be extremely hazardous.<br>See Section 8 for exposure controls. |
| Ingestion: | May be harmful or fatal if ingested.<br>If ingested, may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea.<br>Aspiration of petroleum distillates into the lungs can cause severe chemical pneumonitis that can be fatal. |
| Chronic Health Effects: | Studies of workers exposed to asphalt have not established an association between asphalt fumes and cancer and other lung diseases in man. However this petroleum based product contains a variable amount of polycyclic aromatic hydrocarbons which have been shown to cause cancer and respiratory damage in laboratory animals. See Section 11 for additional toxicological data. |
| Aggravation of Pre-Existing Conditions: | Chronic respiratory or skin conditions may temporarily worsen from exposure to this product. |
| OSHA Regulatory Status: | This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |

## SECTION 4 - FIRST AID MEASURES

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| Eye Contact: | Immediately flush eyes with plenty of water for at least 15 to 20 minutes.<br>Ensure adequate flushing of the eyes by separating the eyelids with fingers.<br>Get medical attention, if irritation or symptoms of overexposure persists. |
| Skin Contact: | **Hot Material:**<br>Immediately drench or immerse area in water to assist in cooling.<br>Apply iced water or ice packs to burned area.<br>**DO NOT** use iced water or ice packs if the burned area covers more than 10% of the body, as this may contribute to shock.<br>**DO NOT** try to remove product from burned area after it has cooled.<br>Seek immediate medical attention.<br>**Medical Personnel** can soften and remove cooled product with petroleum jelly or mineral oil.<br>If skin irritation persists, call a physician.<br><br>**Cold Material:**<br>Clean exposed skin with mild soap and water.<br>Seek medical attention if irritation persists. |
| Inhalation: | If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. |
| Ingestion: | Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested.<br>Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration. |
| Note to Physicians: | Provide general supportive measures and treat symptomatically. |

## SECTION 5 - FIRE FIGHTING MEASURES

| | |
|---|---|
| Flammable Properties: | Not available. |
| Flash Point: | > 525 °F (274 °C) |
| Flash Point Method: | Cleveland Open Cup (C.O.C). |
| Auto Ignition Temperature: | > 650 °F (343 °C) |
| Lower Flammable/Explosive Limit: | Not available. |
| Upper Flammable/Explosive Limit: | Not available. |
| Extinguishing Media: | Dry chemical, foam, carbon dioxide. Use water to cool fire-exposed containers and to protect personnel.<br>Treat as fuel oil or hydrocarbon fire. |
| Unsuitable Media: | Do not use water directrly on asphalt fires as it may cause violent eruptions and spreading of hot asphalt. |
| Protective Equipment: | Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear. |
| Unusual Fire Hazards: | DO NOT direct water into a container or directly onto hot product, a vessel or storage tank containing hot product as it may cause violent eruptions and spreading of hot product.<br>Hot product may ignite flammable materials on contact. |

| | |
|---|---|
| Hazardous Combustion Byproducts: | Primary combustion products are carbon monoxide, carbon dioxide and water. Combustion products may include sulfur oxides and hydrogen sulfide. Other undetermined compounds could be released in small quantities. |

**NFPA Ratings:**

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|---|---|
| NFPA Health: | 1 |
| NFPA Flammability: | 1 |
| NFPA Reactivity: | 0 |
| NFPA Other: | |

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personnel Precautions: | Avoid contact with skin and eyes.<br>Isolate area and keep unnecessary personnel away. |
| Environmental Precautions: | Avoid runoff into storm sewers, ditches, and waterways. |
| Methods for containment: | Contain spills with an inert absorbent material such as soil, sand or oil dry.<br>Prevent from spreading by covering, diking or other means. |
| Methods for cleanup: | Solidify with inert absorbent material such as sand or oil dry, pick up and put into suitable container for disposal.<br>Pick up and transfer to properly labeled containers.<br>Evaluate residue to determine if it is a hazardous waste by characteristic (D001).<br>Dispose of in accordance with Local, State, Federal and Provincial regulations. |

## SECTION 7 - HANDLING and STORAGE

| | |
|---|---|
| Handling: | Do not get this material in your eyes, on your skin, or on your clothing and avoid inhaling vapors, fumes or mist.<br>Use this product with adequate ventilation. |
| Storage: | Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.<br>Keep away from heat, sparks, or open flame.<br>Assure proper ventilation of storage or shipping containers to prevent accumulation of hazardous concentrations of off-gassed hydrocarbon gas. |
| Work Practices: | Handle in accordance with good industrial hygiene and safety practices.<br>These include avoiding any unnecessary exposure and removal of the material from the skin, eyes and clothing. |
| Special Handling Procedures: | Hydrogen sulfide, an extremely flammable, colorless, highly toxic gas, is emitted from heated asphalt and may accumulate in storage tanks and bulk transport containers. |
| Hygiene Practices: | Wash exposed areas thoroughly after handling this product.<br>Wash hands and arms frequently. Shower after exposure. Wash work clothes when soiled.<br>Avoid contact with skin, eyes and clothing. |

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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|---|---|
| Engineering Controls: | General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits. |
| Eye/Face Protection: | Wear safety glasses with side-shields or goggles.<br>Wear a face shield also when splash hazard exist. |
| Skin Protection Description: | Protective gloves (heat insulated, leather or lined neoprene coated gloves are recommended when working with hot product).<br>Long sleeved shirt and long pants (cotton or other thermal protective material are recommended). |
| Respiratory Protection: | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators in accordance with their company's respiratory protection program, local regulations or 29 CFR 1910.134.<br>Supplied air respirators or self-contained breathing apparatus should be used when concentrations of hydrogen sulfide exceeds the occupational exposure limit. |

EXPOSURE GUIDELINES

| Ingredient | Guideline OSHA | Guideline NIOSH | Guideline ACGIH | | |
|---|---|---|---|---|---|
| Asphalt, oxidized | PEL-TWA: 5 mg/m3 (Oil mist) | REL-TWA: 5 mg/m3 (Oil mist) | TLV-TWA: 0.5 mg/m3 (Fume) | | |

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

| | |
|---|---|
| Physical State Appearance: | Solid or molten liquid. |
| Color: | Brown Black. |
| Odor: | Petroleum odor. |
| Boiling Point: | >1000F (>538C) |
| Melting Point: | No Data |
| Specific Gravity: | Not applicable. |
| Solubility: | Insoluble |
| Vapor Density: | Not applicable. |
| Vapor Pressure: | 3 mm Hg @ 20C |
| pH: | Not applicable. |
| Viscosity: | Not applicable. |
| Flash Point: | > 525 °F (274 °C) |
| Flash Point Method: | Cleveland Open Cup (C.O.C). |
| Auto Ignition Temperature: | > 650 °F (343 °C) |

## SECTION 10 - STABILITY and REACTIVITY

| | |
|---|---|
| Chemical Stability: | Stable under normal conditions. |
| Hazardous Polymerization: | Hazardous polymerization does not occur. |
| Conditions to Avoid: | Keep away from heat, sparks, or open flame.<br>Do not allow hot, molten asphalt to contact water as this may cause violent eruptions and spreading of hot asphalt. |
| Incompatible Materials: | This product may react with strong oxidizing agents and water. |
| Special Decomposition Products: | Carbon dioxide.<br>Carbon monoxide.<br>Combustion products may include sulfur oxides and hydrogen sulfide. |

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Carcinogens:**

| | ACGIH | NIOSH | OSHA | IARC | NTP | MEXICO |
|---|---|---|---|---|---|---|
| **Asphalt, oxidized** | No Data | NIOSH carcinogen | No Data | Group 3 - Not Classifiable as to its Carcinogenicity to Humans. | No Data | No Data |

**Applies to Product :**

| | |
|---|---|
| Acute Effects: | Inhalation of vapors may cause nose, throat, and mucous membrane irritation, and nausea, headaches or dizziness, and central nervous system depression, including drowsiness, loss of coordination, and unconsciousness. 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. Aspiration of petroleum distillates into the lungs can cause severe chemical pneumonitis that can be fatal. See Section 8 for exposure controls. |
| Chronic Effects: | Prolonged or repeated skin contact may result in dryness and irritation of the skin. Prolonged contact with clothing saturated in petroleum distillates can cause second degree burns. Long term skin exposure to asphalt can increase sensitivity to the sun, and may cause discoloration. |

**Asphalt, oxidized :**

| | |
|---|---|
| Carcinogenicity: | In March, 1987, the International Agency for Research on Cancer (IARC) classified bitumens (such as petroleum asphalt in this product) as a Group 3 material, "not classifiable as to its carcinogenicity to humans." This classification was made based on inadequate evidence for the carcinogenicity of undiluted air-refined bitumens in experimental animals and inadequate evidence that bitumens alone are carcinogenic to humans. However, asphalt does contain a small amount of polycyclic aromatic hydrocarbons which have been shown to cause cancer and respiratory damage in animals.<br>Based on a 2000 review of health effects literature, NIOSH concluded that roofing asphalt fumes are a potential occupational carcinogen. |

## SECTION 12 - ECOLOGICAL INFORMATION

**Applies to Product :**

| | |
|---|---|
| Ecotoxicity: | No data available for this material. |

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Applies to Product :**

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|---|---|
| Waste Disposal: | Dispose of in accordance with Local, State, Federal and Provincial regulations. |
| Contaminated Packaging: | Empty containers should be taken for local recycling, recovery or waste disposal. |
| RCRA Number: | No EPA Waste Numbers are applicable for this product's components. |
| RCRA Characteristics: | This material is not expected to be a characteristic hazardous waste under RCRA. |

## SECTION 14 - TRANSPORT INFORMATION

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|---|---|
| DOT Shipping Name: | Elevated temperature liquid, flammable, n.o.s Hot Product |
| DOT UN Number: | UN3257 |
| DOT Hazard Class: | 9 |
| DOT Packing Group: | III |
| DOT Exemption: | Cold Product - Not Regulated |
| Canadian Shipping Name: | Elevated temperature liquid, flammable, n.o.s Hot Product |
| Canadian UN Number: | UN3257 |
| Canadian Hazard Class: | 9 |
| Canadian Packing Group: | III |

## SECTION 15 - REGULATORY INFORMATION

**Inventory Status**

| | Japan ENCS | EINECS Number | South Korea KECL | Australia AICS | Canada DSL |
|---|---|---|---|---|---|
| Asphalt, oxidized | Not listed | 265-196-4 | KE-01957 | Listed | Listed |

| | TSCA Inventory Status |
|---|---|
| Asphalt, oxidized | Listed |

**Applies to Product :**

| | |
|---|---|
| Canada Reg. Status: | This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations. |
| Canada WHMIS: | Controlled - Class: D2B Toxic |
| CA PROP 65: | The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):<br>This product does not contain any Proposition 65 chemicals. |
| SARA: | This material contains Polycyclic Aromatic Compounds (PACs) listed under SARA 313. For SARA 313 reporting information, see the following website: http://www.trumbullaspahlt.com. |
| Section 311/312 Hazard Categories: | Acute Health Hazard: Yes<br>Chronic Health Hazard: Yes<br>Risk of ignition: No<br>Sudden Release of Pressure Hazard: No<br>Reactive Hazard: No |
| Clean Air Act: | This product does not contain any Hazardous Air Pollutants (HAPs). |

**State Right To Know**

| | RI | MN | IL | PA | MA |
|---|---|---|---|---|---|
| Asphalt, oxidized | No Data | No Data | No Data | No Data | No Data |

| | NJ |
|---|---|
| Asphalt, oxidized | No Data |

## SECTION 16 - ADDITIONAL INFORMATION

| | |
|---|---|
| HMIS Health Hazard: | 1* |
| HMIS Fire Hazard: | 1 |
| HMIS Reactivity: | 0 |
| HMIS Personal Protection: | X |
| MSDS Creation Date: | January 11, 1996 |
| MSDS Revision Date: | August 12, 2010 |
| MSDS Revision Notes: | Product Name Update |
| MSDS Author: | KK |
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