

MATERIAL SAFETY DATA SHEET

(Essentially similar to Form OSHA 20)

Fontana Paper Mills, Inc.

Page 1 of 4

Fontana Paper Mills Phone Number: (909) 823-4100

Product Identification	Trade Name: Lockridge, roof shingles Generic Name: Not applicable Chemical Name: Not applicable Chemical Family: Not applicable Synonyms: Not applicable																								
Hazardous Ingredients	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>CAS No.</th> <th>%</th> <th>Limit, Type</th> </tr> </thead> <tbody> <tr> <td>MDI resin</td> <td>101-68-8</td> <td>–</td> <td>0.51 mg/m³ TWA</td> </tr> <tr> <td>Asphalt</td> <td>8052-42-4</td> <td>–</td> <td>5 mg/m³ ACGIH TLV</td> </tr> <tr> <td>Dacite Porphyry</td> <td>Mixture</td> <td>–</td> <td>Not established</td> </tr> <tr> <td>Quartz</td> <td>14808-60-7</td> <td>–</td> <td>0.025 mg/m³ ACGIH TWA</td> </tr> </tbody> </table>	Ingredient	CAS No.	%	Limit, Type	MDI resin	101-68-8	–	0.51 mg/m ³ TWA	Asphalt	8052-42-4	–	5 mg/m ³ ACGIH TLV	Dacite Porphyry	Mixture	–	Not established	Quartz	14808-60-7	–	0.025 mg/m ³ ACGIH TWA				
Ingredient	CAS No.	%	Limit, Type																						
MDI resin	101-68-8	–	0.51 mg/m ³ TWA																						
Asphalt	8052-42-4	–	5 mg/m ³ ACGIH TLV																						
Dacite Porphyry	Mixture	–	Not established																						
Quartz	14808-60-7	–	0.025 mg/m ³ ACGIH TWA																						
Physical Data	Appearance and Odor: Solid, granule covered polyurethane/asphaltic foam, odorless. <table border="1"> <tr> <td>Melting Point:</td> <td>Not applicable</td> <td>Solubility (H₂O):</td> <td>Insoluble</td> </tr> <tr> <td>Boiling Point:</td> <td>Not applicable</td> <td>pH:</td> <td>Not applicable</td> </tr> <tr> <td>Vapor Pressure:</td> <td>Not applicable</td> <td>Specific Gravity:</td> <td>Not applicable</td> </tr> <tr> <td>% Volatile (vol.):</td> <td>Not applicable</td> <td>API Gravity:</td> <td>Not applicable</td> </tr> <tr> <td>Vapor Density:</td> <td>Not applicable</td> <td>Viscosity:</td> <td>Not applicable</td> </tr> <tr> <td>Evaporation Rate:</td> <td>Not applicable</td> <td></td> <td></td> </tr> </table>	Melting Point:	Not applicable	Solubility (H₂O):	Insoluble	Boiling Point:	Not applicable	pH:	Not applicable	Vapor Pressure:	Not applicable	Specific Gravity:	Not applicable	% Volatile (vol.):	Not applicable	API Gravity:	Not applicable	Vapor Density:	Not applicable	Viscosity:	Not applicable	Evaporation Rate:	Not applicable		
Melting Point:	Not applicable	Solubility (H₂O):	Insoluble																						
Boiling Point:	Not applicable	pH:	Not applicable																						
Vapor Pressure:	Not applicable	Specific Gravity:	Not applicable																						
% Volatile (vol.):	Not applicable	API Gravity:	Not applicable																						
Vapor Density:	Not applicable	Viscosity:	Not applicable																						
Evaporation Rate:	Not applicable																								
Fire and Explosion Data; NFPA Standard 704 Ratings	<table border="1"> <tr> <td>Flash Point (TCC):</td> <td>>450 F</td> <td>NFPA Ratings:</td> <td></td> </tr> <tr> <td>Lower Flam. Limit:</td> <td>Negligible</td> <td>Health</td> <td>2</td> </tr> <tr> <td>Upper Flam. Limit:</td> <td>Negligible</td> <td>Fire</td> <td>1</td> </tr> <tr> <td>Autoignition Temp.:</td> <td>>450 F</td> <td>Reactivity</td> <td>0</td> </tr> </table> <p>Fire & Explosion Hazards: This material can ignite and burn when heated above its flash point. Material will not burn unless preheated.</p> <p>Products of Combustion: Carbon dioxide, carbon monoxide, hydrocarbons, and dense, black smoke.</p> <p>Extinguishing Media: Carbon dioxide, dry chemical, foam, or water spray.</p> <p>Fire Fighting Procedures: Wear protective equipment and clothing. Use a self-contained breathing apparatus for fire in enclosed spaces. Use water spray to dilute and disperse vapors, protect personnel, and to flush unignited material spills away from fire.</p>	Flash Point (TCC):	>450 F	NFPA Ratings:		Lower Flam. Limit:	Negligible	Health	2	Upper Flam. Limit:	Negligible	Fire	1	Autoignition Temp.:	>450 F	Reactivity	0								
Flash Point (TCC):	>450 F	NFPA Ratings:																							
Lower Flam. Limit:	Negligible	Health	2																						
Upper Flam. Limit:	Negligible	Fire	1																						
Autoignition Temp.:	>450 F	Reactivity	0																						
Health Hazard Information; Protective Equipment Recommended	<p>General Effects of Overexposure: Primary route of exposure is eye contact. No chronic effects are expected due to exposure associated with this material or its components during normal use.</p> <p>Eye Contact: Direct contact or exposure to fumes which may be generated at high temperatures may cause burning, tearing, and redness. Goggles or safety glasses are recommended.</p>																								

MATERIAL SAFETY DATA SHEET

(Essentially similar to Form OSHA 20)

Fontana Paper Mills, Inc.

Page 2 of 4

Fontana Paper Mills Phone Number: (909) 823-4100

Skin Contact: Prolonged skin contact is essentially non-irritating to skin. No adverse health effects are expected from skin contact.

Inhalation: Exposure to fumes which may be generated at high temperatures may irritate the nose, throat, and upper respiratory tract.

Ingestion: Accidentally swallowing this material may cause irritation of the stomach and intestinal tract. Ingestion is not a likely route of exposure to this product.

Emergency & First Aid Information

Eye Contact: Flush the affected eye(s) with water. If irritation develops, seek medical attention.

Skin Contact: Wash skin thoroughly with soap and water. If irritation develops seek medical attention.

Inhalation: Move away from exposure to fumes and into fresh air. If symptoms of exposure develop, seek medical attention.

Ingestion: If victim is conscious and alert, give milk or water to drink and seek medical attention.

Chemical Reactivity Information

Stability: Stable under normal conditions of storage and handling.

Reactivity: May react with strong oxidizing agents.

Incompatibility: May be incompatible with strong oxidizing agents.

Hazardous Reaction/Decomposition Products: Burning produces carbon dioxide, carbon monoxide, and dense, black smoke.

Polymerization Hazards: This material will not polymerize.

MATERIAL SAFETY DATA SHEET

(Essentially similar to Form OSHA 20)

Fontana Paper Mills, Inc.

Page 3 of 4

Fontana Paper Mills Phone Number: (909) 823-4100

Storage & Handling Procedures	Routine Handling & Use: Avoid breathing mists or fumes generated when this material is heated or burned. Avoid eye contact. Wash thoroughly after handling. Non-Routine Handling & Use: Not applicable. Storage: No special storage precautions needed.
Storage & Handling Procedures	Routine Handling & Use: Avoid breathing mists or fumes generated when this material is heated or burned. Avoid eye contact. Wash thoroughly after handling. Non-Routine Handling & Use: Not applicable. Storage: No special storage precautions needed.
Spill, Leak and Disposal Procedures	General Spill or Leak Procedures: All materials should be handled and transported off-site in accordance with federal, state, and local regulations.

MATERIAL SAFETY DATA SHEET

(Essentially similar to Form OSHA 20)

Fontana Paper Mills, Inc.

Page 4 of 4

Fontana Paper Mills Phone Number: (909) 823-4100

**Regulatory
Information****SARA Section 313 Notification:**

Asphalt (CAS# 8052-42-4)

Polymeric diphenylmethane diisocyanate (CAS# 9016-87-9)

4, 4' -Diphenylmethane diisocyanate (CAS#101-68-8)

VOC Content, Material: 0**VOC Content, Less Water:** 0**Clean Air Act Ozone Depleter:** None listed**DOT Proper Shipping Name:** Not regulated**DOT Hazard Class:** None**40 CFR 355 Reportable Quantity:** None listed**49 CFR 171 Reportable Quantity:** None listed**California Proposition 65:** Warning: This product contains the following chemicals known by the state of California to cause cancer:

Asphalt (bitumens) (CAS# 8052-42-4)

Silica, crystalline

Prepared by: JE Compliance Services, Inc.**Date:** 13 November 2012