



Highlander-CS™ AR Laminate Shingle

## Material Safety Data Sheet

Last updated: 01-20-08

**SECTION 1 - PRODUCT & COMPANY IDENTIFICATION**Name: **Highlander-CS™ AR Laminate Shingle**

Product Number: 277

Class: **Manufactured Asphalt Roofing Products**

Company Address: 3131 N. Columbia Blvd., Portland, OR 97217-7472 • P.O. Box 17217, Portland, OR 97217-0217

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Website: <http://www.malarkey-rfg.com>**SECTION 2 - HAZARDOUS INGREDIENTS**

None

%Volatile Volume: &lt;0.5%

%Water Volume: &lt;0.1%

**SECTION 3 - HAZARDS IDENTIFICATION****Emergency Overview:** This product contains asphalt. Some asphalt contains sulfur compounds which may form H<sub>2</sub>S when heated or burnt.**Potential Health Effects:****Skin:** May cause mild irritation**Eyes:** May cause irritation.**Ingestion:** May cause irritation to gastro-intestinal tract.**Inhalation:** May cause irritation.**SECTION 10 - STABILITY & REACTIVITY****Chemical Stability:** Stable under normal condition**Conditions to Avoid:** Incomplete Combustion**Incompatible Materials:** Strong Oxidants**Hazardous Decomposition Products:** May form CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub>**Hazardous Polymerization:** Will not occur**SECTION 4 - FIRST AID MEASURES****Eye:** Wash eyes with water thoroughly**Skin:** Wash with soap and water after skin contact**Ingestion:** Ingestion is not considered a potential route of exposure**Inhalation:** Remove to fresh air.**SECTION 11 - TOXICOLOGICAL INFORMATION****Acute Toxicity:** None**Repeated Dose Effects:** None**Sensitization:** None**Carcinogenicity:** The **IARC Monographs (Vol. 35)** reporting on mice painting studies states that there is sufficient evidence for the carcinogen in experimental animals of extracts of some asphalts. The same document states that there is inadequate evidence that asphalts alone are carcinogenic to humans**SECTION 5 - FIRE FIGHTING MEASURES****Flash Point:** N/A**Qualitative Flammable & Reactivity Properties:** Non Flammable**Suitable Extinguishing Media:** CO<sub>2</sub>, Dry Chem, Water**Unsuitable Extinguishing Media:** None known**Guidance to Fire Fighters:** N/A**PPE & Precautions for Fire Fighters:** Avoid confined space w/o proper equipment**SECTION 12 - ECOLOGICAL INFORMATION****Ecotoxicity:** None**SECTION 13 - DISPOSAL CONSIDERATION**

Contact the local authority, comply with local code

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Clean Up Techniques: None

Personal Precautions: See Exposure Controls/Personal Protection Section

Environmental Precautions: None

**SECTION 14 - TRANSPORT INFORMATION****Shipping Name:** Not Regulated**Labeling:** Not Required**Hazard Class:** N/A**SECTION 7 - HANDLING & STORAGE****Handling & Storage:** Precautions to be taken in handling and storing. Do not store near open flames.**SECTION 15 - REGULATORY INFORMATION**

All Components of this products are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines:** Exposure Limit Values: **TLV- 5mg/m<sup>3</sup> PEL: N/A****Engineering Controls:** Do not store near open flames**PPE:****Eye:** Recommended but not required**Skin:** Protective gloves are recommended but not required. Wear apron.**Respiratory:** Not normally required**General Hygiene Considerations:** Washing facility recommended**SECTION 16 - OTHER INFORMATION****HMIS Rating:**

Health:	Flammability:	Reactivity:	PPE:
0	1	0	A

**Note:** PPE: Personal Protective Equipment

N/A: Not Applicable

NDA: No Data Available

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**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES****Boiling Range:** 650-1000° F**Melting Point:** N/A**Vapor Pressure:** N/A**Vapor Density:** N/A**Evaporation Rate:** N/A**Specific Gravity:** >1.0 g/ml