

MATERIAL SAFETY DATA SHEET

Date Prepared: 05/01/2006

MSDS No: 045

SunShield Reflective Pavement Coating

1. Chemical Product and Company Identification

Product Identifier: SunShield Reflective Pavement Coating
Manufacturer

Neyra Industries, Inc.
10700 Evendale Drive
Cincinnati, OH 45241

Emergency Telephone Numbers
CHEMTREC (800) 424-9300 24 hours
Emergency Contact Customer Service
Emergency Phone:
1-800-543-7077

2. Composition/Information on Ingredients

COMPONENT	CAS#	% BY WT	TLV
Acrylic Copolymer Emulsion	N/A	< 25	N/D*
Water	7732-18-5	< 25	N/D*
Titanium Dioxide	13463-67-7	< 7	10 mg/m ³
Calcium Carbonate	1317-65-3	< 45	10 mg/m ³

* N/D = Not Determined

3. Hazards Identification

Emergency Overview

Respirable crystalline quartz has been found to be a suspected carcinogen by NTP, although no exposure is expected through the use of this material. This material has not been tested in long term chronic exposure tests.

Potential Health Effects

Eyes: Can cause eye irritation.

Skin: Skin absorption may potentially contribute to the overall exposure.

Appropriate measures should be taken to prevent absorption.
Ingestion: Do not ingest.

Signs and Symptoms of Overexposure
Eyes: Cause severe eye irritation.
Skin: May cause skin irritation.
Inhalation: Excessive inhalation may cause headaches, dizziness or nausea.
Acute Effects: Not Established

4. First Aid Measures

Eyes: Flush eye with water for 15 minutes. Get medical attention.
Skin: Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion: Get medical attention immediately.
Inhalation: If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
Antidotes: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Comments: Not Established
Flashpoint and Method: >200 degrees F
Comments: Not Established
Autoignition Temperature: None
Comments: None
Hazardous Combustion Products: Not Established
Other Considerations: "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.
General Hazard: This material is a water based emulsion. It does not support combustion.
Fire Fighting Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Flame Propagation or Burning Rate of Solids: Not yet Determined
Fire Explosion: None

Fire Fighting Procedures: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Water cool sealed containers in area of fire to prevent rupture due to steam generation.

Explosion Hazards: None

Extinguishing Media: Use water fog, carbon dioxide, foam, or dry chemical to extinguish the fire.

Sensitive Static Discharge: Not Established
Sensitivity to Impact: None

6. Accidental Release Measures

Small Spill: Avoid exposure to heat, sparks and flame. Avoid hot metal surfaces. Absorb spill with suitable material. In soil, recover the spilled material, put in closed containers for disposal. Dispose in a safe manner in accordance with local, state and federal regulations. On water, stop the leak and prevent it from spreading. Notify the proper authorities. Avoid runoff into storm sewers and ditches which lead to waterways. Do not flush to sewer.

Large Spill: For large spills, dike the area and pump into closed containers. Prevent this material from entering waterways.

Water Spill: This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Special Protective Equipment: Wear protective clothing during cleanup. Refer to Section 8.

General Procedures: Keep spectators away from spill. Surface may be slippery, use care to avoid falling.

7. Handling and Storage

Handling: Wash thoroughly after handling.

Storage: Keep away from heat, sparks and flame.

Loading Temperature: Not Established

Storage Temperature: 32 degrees F to 150 degrees F

Comments: Keep from freezing.

Loading/Unloading Viscosity: Not Determined

Storage Pressure: Not Determined

General Procedures: Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

Electrostatic Accumulation Hazard: None

8. Exposure Controls/Personal Protection

Eyes and Face: Wear safety glasses with side shields (or goggles) and a face shield.

Protective Clothing: Long sleeve shirts and pants are recommended while using this product. Product may adhere to skin.

Skin: Rubber gloves are recommended while handling this product

Respiratory: Wear appropriate, properly fitted respirator (NIOSH/MSHA) during spray applications.

9. Physical and Chemical Properties

Physical State: Liquid
Appearance: Colored liquid
Color: Color may vary from light gray to dark gray.
Vapor Pressure: None
Freezing Point: 32 degrees F
Melting Point: Not Available
Boiling Point: 212 degrees F
pH: 7.0 to 10.0
Evaporation Rate: <1
Density: 10.8 at 77 degrees F
Odor: Sweet scent characteristic of latex .
Percent Volatile: 48
Specific Gravity: 1.2 to 1.4
Viscosity: Not Available
Vapor Density: Heavier
Water Solubility: Completely Miscible

10. Stability and Reactivity

Stable: Yes
Hazardous Polymer: No
Stability: Stable.
Polymerization: None.
Conditions to Avoid:
Incompatible Materials: This material will react violently with any material that reacts with water, such as concentrated sulfuric acid, sodium metal, calcium carbide, etc.

Hazardous Decomposition: Stable. However, may decompose if heated. Carbon monoxide, carbon dioxide. Gases may be generated.

Notes: Avoid temperatures above 200 F (93 C)

11. Toxicological Information

12. Ecological Information

Environmental Data: Not toxic to fish or plants. Does not inhibit bacteria in waste treatment facilities.

Polymer is not biodegradable. Product is not RCRA hazardous.

13. Disposal Considerations

Disposal Method: Liquid material should be considered a hazardous waste and subject to hazardous waste regulation for disposal. Dispose of the dried material in a safe manner in accordance with federal, state, and local regulations. Do not dispose of by means of sinks, drains, or in the immediate environment. Empty drums should be completely drained, properly bunged, and returned to a drum reconditioner. Drill a hole in the bottom of empty pails

to prevent drowning of small children.

14. Transport Information

15. Regulatory Information

SARA Title III (Superfund Amendments and Reauthorization Act)
313 Reportable Ingredients: None

16. Other Information

Approval date: 05/01/2006
Approved by: Greg Houser Title: V. P. Manufacturing
Reason for Issue: New Format
Revision Summary: New MSDS
Information Contact: 1.800.543.7077

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HMIS CODES:	1	0	0	B		NFPA CODES:	1	0	0	-

(Health, Fire, Reactivity, Protection)

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