

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: ReflectiClean
Chemical Name: Waterborne Elastomeric Metal Coating
CAS Number: Blend

Company Identification

Elastomeric Roofing Systems, Inc
6900 Bleck Drive
Rockford, MN 55373
1-800-403-7747 For product information (For
product
information)
1-8800-535-5053 For emergencies (For emergencies)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
PROPYLENE GLYCOL	< 5.0 %	57-55-6
PROPRIETARY POLYMER BLEND	65.0 - 75.0 %	
ETHYLENE GLYCOL MONOBUTYL ETHER	< 10.0 %	111-76-2

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION



***** EMERGENCY OVERVIEW *****
*
* CAUTION *
*
* May cause skin or eye irritation after repeated or *
* prolonged contact. *
* *

HMIS Rating - Health: 1
Flammability: 1
Reactivity: 0

POTENTIAL HEALTH EFFECTS

EYE:

May cause moderate irritation, including burning sensation, tearing, redness or swelling.

SKIN:

Prolonged or repeated contact may cause skin irritation.

INHALATION:

Inhalation may cause mild irritation of nose and throat.

INGESTION:

Moderately toxicity if swallowed. Not expected to be a route of entry under normal handling conditions.

SIGNS AND SYMPTOMS OF EXPOSURE:

May produce symptoms of nervous system depression, including headache, dizziness, nausea, loss of sense of balance, drowsiness, and visual disturbances.

MISCELLANEOUS:

In the extremely unlikely event that temperatures should reach or exceed 600 F, thermal decomposition of the polymer may occur at which point hydrogen fluoride (HF) will begin to be generated. HF is extremely corrosive and may cause severe burns which may not be immediately visible or painful. Exposure to HF may be fatal if absorbed through the skin, inhaled or swallowed.



4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

SKIN CONTACT FIRST AID:

Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

INGESTION FIRST AID:

If swallowed, do NOT induce vomiting. Give lukewarm water if victim is completely conscious/alert. Get immediate medical attention. Never give anything by mouth to an unconscious person.

MISCELLANEOUS:

In case of HF exposure: Monitor calcium levels frequently and EKG for signs of calcium depletion. Respiratory care should be closely supervised and may include further administration of 2.5% calcium gluconate by nebulization.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: 68 C (154.4 F)
Autoignition Temperature: 244 C (471.2 F)

FLAMMABLE LIMITS IN AIR

LEL: 1.1 %
UEL: 10.6 %

EXTINGUISHING MEDIA:

Use water spray, carbon dioxide, dry chemical or multi-purpose type foam. Do not use a solid water stream, as this may spread the fire.



(section 5 continued)

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire).

COMBUSTION PRODUCTS:

When burned, the following hazardous products of combustion can occur: oxides of carbon, oxides and compounds of nitrogen, and hydrogen fluoride.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment.

INITIAL CONTAINMENT:

Prevent entry into waterways, sewers, basements or confined areas. Blanket with firefighting foam. Absorb or cover with dry earth or other non-combustible material and transfer to containers. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 4.4 C (39.9 F)
Maximum: 29.4 C (84.9 F)

SHELF LIFE: (in original, sealed containers)

6 months @ 4.4 C

HANDLING (PERSONNEL):

Wear recommended personal protective equipment.

HANDLING (PHYSICAL ASPECTS):

Keep away from heat. sparks, flame. Wash hands after handling.

STORAGE PRECAUTIONS:

Store away from heat, sparks, open flames, strong oxidizing agents and direct sunlight.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Both local exhaust and good general room ventilation must be provided not only to control exposure but also prevent formation of flammable mixtures.

EYE / FACE PROTECTION REQUIREMENTS:

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

SKIN PROTECTION REQUIREMENTS:

Wear chemical resistant gloves. When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special handling equipment is required. When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

MISCELLANEOUS:

ACGIH ceiling limit for HF has TLV of 3ppm.

EXPOSURE GUIDELINES:

ETHYLENE GLYCOL MONOBUTYL ETHER

OSHA PEL: 25 ppm, 120 mg/m³

OSHA TWA: 25 ppm

ACGIH TWA: 25 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
BULK DENSITY ...: 10.35 lbs/gallon
VISCOSITY: 300-500 cps

10. STABILITY AND REACTIVITY

STABILITY:

This material is stable under normal and anticipated storage, handling, and processing conditions. Thermal decomposition of polymer will generate HF.



(section 10 continued)

POLYMERIZATION:

Not expected to occur.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with strong acids, strong bases, oxidizing agents, esters and ketones.

DECOMPOSITION:

Above 600 F product will decompose to produce HF, possible oxides of carbon, oxides of nitrogen.

CONDITIONS TO AVOID:

Avoid heat, sparks, flame, and other sources of ignition. Avoid oxidizing conditions.

11. TOXICOLOGICAL INFORMATION

No information available.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Contaminated product, soil, water, container residues, and spill cleanup materials may be hazardous wastes. Comply with applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: ReflectiClean
D.O.T. HAZARD CLASS ...: Non-Hazardous
UN NUMBER: N/A



15. REGULATORY INFORMATION

Canadian Disclosure List

PROPYLENE GLYCOL (57-55-6)
ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)

MISCELLANEOUS INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

16. OTHER INFORMATION

PREPARED BY: Chemist
APPROVED BY: Laura Vollenweider
TITLE: Chemist
APPROVAL DATE: July 16, 2008
SUPERCEDES DATE ...: New
RTN NUMBER: 00000161 (Official Copy)

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data in this MSDS relate only to the specific material designated herein. We do not assume liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

END OF MSDS

