

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Erathane 300 Finish Coat
Product Number: pails, drums
Chemical Name: Polyurethane
Chemical Family: Polyurethane
CAS Number: Blend

Company Identification

ERSystems- Elastomeric Roofing Systems, Inc.
6900 Bleck Dr
Rockford, MN 55373 USA
1-800-403-7747 (For product information)
1-800-535-5053 Infotrac (For emergencies)

SPECIAL NOTES:

Single component moisture cure polyurethane finish coat.

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% Erathane 300 Finish Coat

CONTAINING:

HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
MDI 2,2' AND 2,4'	< 0.1 %	26447-40-5
4,4'-DIPHENYLMETHANE DIISOCYANATE	< 1.0 %	101-68-8

NON-HAZARDOUS COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
ALUMINUM	< 25.0 %	7423-90-5
SOLVENT NAPHTHA, (PETROLEUM), LIGHT AROM.	< 24.0 %	64742-95-6

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)



(section 2 continued)

HAZARDS DISCLOSURE

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are hazards.

3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
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* CAUTION
*
* Prolonged or repeated contact may cause skin or eye
* irritation. May be harmful if swallowed.
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HMIS Rating - Health: 2
 Flammability: 2
 Reactivity: 0

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:
Contact may cause eye irritation.

SKIN:
In those who have developed skin sensitization, these symptoms can develop as a result of contact with a very small amount of the liquid material. Can cause moderate skin irritation.

INHALATION:
Avoid breathing vapors or mists. Prolonged or excessive inhalation may cause respiratory tract irritation. May cause allergic respiratory reaction.



(section 3 continued)

INGESTION:

Harmful if swallowed. Can burn mouth, throat, and stomach.

CHRONIC EFFECTS:

Sensitized (allergic) individuals may show allergenic lung and/or skin reaction. After an individual is diagnosed as sensitive to isocyanates, no exposure should be permitted.

CARCINOGENICITY INFORMATION:

Listed by IARC and NTP as a carcinogen.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Asthma-like conditions may cause additional breathing problems.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT FIRST AID:

Remove contaminated clothing and shoes. Wash affected area immediately with large amounts of soap and water. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Do not induce vomiting. Contact a physician. Get immediate medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: 43.9 C (111.0 F)
Autoignition Temperature: N/A



(section 5 continued)

FLAMMABLE LIMITS IN AIR

LEL: 1 %

UEL: 6 %

FLAMMABLE PROPERTIES:

Full emergency equipment with self contained breathing apparatus and full protective clothing should be worn. At temperatures greater than 400 F material may polymerize causing pressure build up in closed containers. Explosive rupture is possible. Use cold water to cool containers exposed to fire.

EXTINGUISHING MEDIA:

Water, carbon dioxide, foam or dry powder.

FIRE & EXPLOSION HAZARDS:

Material will burn in a fire.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear safety goggles. Wear appropriate personal protective equipment.

INITIAL CONTAINMENT:

Contain spilled material. Absorb spills with inert material.

LARGE SPILLS PROCEDURE:

Absorb spill with inert material (e g, dry sand or earth), then place in a chemical waste container.

SMALL SPILLS PROCEDURE:

Absorb spills with inert material.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 15.6 C (60.1 F)

Maximum: 26.7 C (80.1 F)



(section 7 continued)

SHELF LIFE: (in original, sealed containers)
8 months @ 26.7 C

HANDLING (PERSONNEL):

Avoid prolonged or repeated contact with skin. Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Provide appropriate ventilation. Close container after each use. Keep container closed to avoid contamination. Keep out of reach of children.

STORAGE PRECAUTIONS:

Avoid extreme temperatures. Keep container closed when not in use. Store in a cool dry place.

SPECIAL SENSITIVITY:

All handling equipment should be electrically grounded.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE / FACE PROTECTION REQUIREMENTS:

Wear safety glasses. A respiratory protection program that meets OSHA's 29 CFR 1910-134 and ANSI Z88-2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION REQUIREMENTS:

Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation. Wash hands thoroughly after handling.

RESPIRATORY PROTECTION REQUIREMENTS:

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

EXPOSURE GUIDELINES:

MDI 2,2' and 2,4'

ACGIH TWA: .02 ppm

Aluminum

ACGIH TWA: 10 mg/m³

SOLVENT NAPHTHA, (PETROLEUM), LIGHT AROM.

ACGIH TWA: 200 ppm



9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Aluminum Gray
ODOR: Strong, Solvent Odor
BOILING POINT: 320 F
VAPOR PRESSURE: 5.1 mm Hg
VAPOR DENSITY: 8.5 (Air = 1)
% VOLATILES: <25 %
VISCOSITY: 1500 to 3500 cps
EVAPORATION RATE: 0.2
VOLATILE ORGANIC COMPOUNDS (VOC) ...: 2.04 lb/gallon

10. STABILITY AND REACTIVITY

STABILITY:

Stable; however, may decompose if heated.

POLYMERIZATION:

Product will not undergo polymerization unless heated.

INCOMPATIBILITY WITH OTHER MATERIALS:

Incompatible or can react with acids, bases, oxidizers.

DECOMPOSITION:

Decomposition will not occur if handled and stored properly.

11. TOXICOLOGICAL INFORMATION

No information available.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.



14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Erathane 300 Finish Coat
D.O.T. SHIPPING NAME ...: Combustible Liquid, N.O.S.
D.O.T. HAZARD CLASS: Combustible Liquid
UN NUMBER: UN 1263, PG III

15. REGULATORY INFORMATION

Canadian Disclosure List

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8)

Title V

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8)

SC Toxic Air Pollutants List

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8)

16. OTHER INFORMATION

PREPARED BY: N/A
APPROVED BY: Laura Vollenweider
TITLE: Chemist
APPROVAL DATE: February 20, 2008
SUPERCEDES DATE ...: October 24, 2005
MSDS NUMBER: uret00erf0300
RTN NUMBER: 00000006 (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

