

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Primer CR
Product Number: pails
Chemical Name: Primer Solutions
CAS Number: Blend

Company Identification

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
Confidential Ingredient A	45.0 - 70.0 %	Trade Secret
PROPYLENE GLYCOL METHYL ETHER ACETATE	1.0 - 15.0 %	108-65-6
XYLENE	1.0 - 5.0 %	1330-20-7
TOLUENE DIISOCYANATE MIX	0.0 - 5.0 %	26471-62-5
ETHYL BENZENE	0.0 - 1.0 %	100-41-4

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

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 acute, chronic, fire hazards.



3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****  
*  
* WARNING *  
*  
* PRIMARY ROUTES OF ENTRY: INGESTION, INHALATION, *  
* EYE CONTACT, SKIN CONTACT, SKIN ABSORPTION. *  
*  
*****
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HMIS Rating - Health: *2
Flammability: 3
Reactivity: 0

POTENTIAL HEALTH EFFECTS

EYE:

Exposure to liquid or vapor causes eye irritation. Symptoms may include burning, tearing, redness, and swelling. May also cause blurred vision.

SKIN:

Exposure causes skin irritation. Prolonged or repeated exposure may defat the skin and cause dermatitis. Symptoms may include redness, burning, drying and cracking, skin burns and skin damage. Pre-existing skin disorders may be aggravated by exposure to this material. Some components may be absorbed into the body through the skin.

INHALATION:

Excessive inhalation of vapors can cause nasal and respiratory irritation, central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness, and even death. CNS-depression and narcosis may occur due to inhalation of high vapour concentrations. Inhalation of diisocyanates may cause irritation or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.

INGESTION:

Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.



(section 3 continued)

CHRONIC EFFECTS:

Chronic inhalation of xylene may cause damage to elements of blood (e.g. red blood cells). Chronic overexposure of toluene vapors can lead to depression of the central nervous system, leading to fainting, breathing difficulty, nausea, vomiting, and memory loss. Reports indicate that solvent can cause liver damage, kidney damage, and mucous membrane irritation. Intentional misuse by deliberately inhaling the vapors of this material can be harmful or fatal. This product may contain a small percentage of toluene diisocyanate (<0.1). NIOSH,NTP, and IARC list toluene diisocyanate as a suspected carcinogen. Prolonged repeated exposure to diisocyanates may cause skin sensitization, and also respiratory sensitization. To these persons exposure to levels well below established exposure limits can produce reddening, swelling, rash, or blisters on the skin. Or chemical asthma and nonspecific asthmatic conditions to the respiratory tract. This product contains ethylbenzene. Ethylbenzene is classified as a possible human carcinogen, based on sufficient evidence of cocinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

REPRODUCTIVE HAZARDS:

This material (or a component) has been shown to cause birth defects in laboratory animal studies. Toluene may be harmful to the human fetus based on positive test results with laboratory animals.

CARCINOGENICITY INFORMATION:

Toluene ACGIH not classifiable as a human carcinogen. IARC inadequate data
Xylene ACGIH not classifiable as a human carcinogen. IARC classification not possible from current data. Toluene diisocyanate mix ACGIH sensitiser. IARC no data NTP anticipated carcinogen
Ethylbenzene ACGIH confirmed animal carcinogen with unknown relevance to humans
IARC inadequate data.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes, lifting upper and lower lids occasionally. Seek medical attention.



(section 4 continued)

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. Wash contaminated clothing before reuse.

INHALATION FIRST AID:

If inhaled, remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Keep person warm, quiet, and seek immediate medical attention.

INGESTION FIRST AID:

Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him in the recovery position. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN:

Inhalation of high concentrations of this material, as could occur in enclosed spaces, may be associated with cardiac arrhythmias. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: 18.3 C (64.9 F)
Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: 1.0 %
UEL: 7.0 %

EXTINGUISHING MEDIA:

Alcohol-resistant foam, water fog, carbon dioxide, or dry chemical.

FIRE & EXPLOSION HAZARDS:

Material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product can ignite explosively. Can release vapors that form explosive mixtures at temperatures at or above the flash point.



(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.

COMBUSTION PRODUCTS:

May form: carbon dioxide and carbon monoxide, halogenated hydrocarbons, nitrogen oxides, various hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear safety goggles. Wear appropriate personal protective equipment.

INITIAL CONTAINMENT:

Ventilate the area and eliminate all sources of ignition - heat, sparks, flame, electricity, and impact. Take action to eliminate source of leakage. Large spills need to be handled carefully. Wear respiratory protection and personal protective equipment. Dike spilled liquid, and collect spillage with non-combustible absorbent material (sand, earth, diatomaceous earth, vermiculite) place in container for disposal according to local or national regulations.

LARGE SPILLS PROCEDURE:

Keep unnecessary and unprotected personnel from entering. Stop spill at source. Avoid runoff into storm sewers and ditches which lead to waterways. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Destroy by liquid incineration in accordance with applicable regulations.

SMALL SPILLS PROCEDURE:

Absorb spills with inert material and transfer to hood. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

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. Keep out of reach of children. Use in area with adequate ventilation. Take measures to avoid static discharge.

HANDLING (PHYSICAL ASPECTS):

Store in a dry, well ventilated place away from sources of heat and ignition - heat, sparks, flame, electricity, impact and friction. Keep container tightly closed. Agitate containers before use. Keep out of reach of children.

STORAGE PRECAUTIONS:

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

MISCELLANEOUS:

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

EYE / FACE PROTECTION REQUIREMENTS:

Wear when needed safety glasses with side-shields, goggles, face-shield.

SKIN PROTECTION REQUIREMENTS:

Selection of specific items such as chemical resistant 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.



(section 8 continued)

MISCELLANEOUS:

Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of the workday. Handle in accordance with good hygiene and safety practice.

EXPOSURE GUIDELINES:

Confidential Ingredient A

OSHA PEL: 200 ppm
OSHA TWA: 100 ppm
ACGIH TWA: 50 ppm
OSHA STEL: 150 ppm
ACGIH STEL: 150 ppm
OSHA Ceiling Limit: 300 ppm
Skin Designation: Yes

XYLENE

OSHA PEL: 100 ppm
ACGIH TWA: 100 ppm
ACGIH STEL: 150 ppm

ETHYL BENZENE

OSHA PEL: 100 ppm, 435 mg/m³
OSHA TWA: 100 ppm, 435 mg/m³
OSHA STEL: 125 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Amber
ODOR: Strong, Solvent Odor
BOILING POINT: 231 F @ 760 mm Hg
VAPOR DENSITY: heavier (Air = 1)
SOLUBILITY IN WATER: Slight
SPECIFIC GRAVITY: 1.07 (Water = 1)
BULK DENSITY: 8.9 lbs/gal.
% VOLATILES: 75-80 %
EVAPORATION RATE: faster than butyl acetate
VOLATILE ORGANIC COMPOUNDS (VOC) ...: 6.9 lbs/gal

10. STABILITY AND REACTIVITY

STABILITY:

Stable at recommended storage conditions.



(section 10 continued)

POLYMERIZATION:

Will not occur under normal conditions.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with oxidizing agents.

DECOMPOSITION:

May form carbon dioxide and carbon monoxide, oxides of nitrogen traces of HCN.

CONDITIONS TO AVOID:

Heat, flames and sparks. Direct sources of heat. Direct sunlight for prolonged periods. Exposure to high temperature for extended periods of time.

11. TOXICOLOGICAL INFORMATION

SKIN EFFECTS:

Product LD 50 dermal no data available
Component Toluene LD 50 dermal 20 mg/kg.

ACUTE ORAL EFFECTS:

Product LD 50 oral no data available
Components Toluene LD 50 oral 636 mg/kg.

ACUTE INHALATION EFFECTS:

LC 50 no data available for product or components.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS:

There is no data available for this material.

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: Primer CR
D.O.T. SHIPPING NAME: Flammable
TECHNICAL SHIPPING NAME ...: Paint
D.O.T. HAZARD CLASS: Class 3
UN NUMBER: UN 1263
D.O.T. LABEL: Flammable liquid
PACKAGE CLASS: II

15. REGULATORY INFORMATION

REGULATORY DISCLOSURES:

Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard.

Canadian Disclosure List

Confidential Ingredient A
TOLUENE DIISOCYANATE MIX (26471-62-5)
ETHYL BENZENE (100-41-4)

SARA Title III - Section 313

Confidential Ingredient A
XYLENE (1330-20-7)
ETHYL BENZENE (100-41-4)

CERCLA Hazardous Substances

Confidential Ingredient A -- RQ 1000 lb
XYLENE (1330-20-7) -- RQ 1000 lb
TOLUENE DIISOCYANATE MIX (26471-62-5) -- RQ 100 lb
ETHYL BENZENE (100-41-4) -- RQ 1000 lb

RCRA Hazardous Substances

Confidential Ingredient A -- RCRA Code: U220
XYLENE (1330-20-7) -- RCRA Code: U239
TOLUENE DIISOCYANATE MIX (26471-62-5) -- RCRA Code: U223

Title V

Confidential Ingredient A
XYLENE (1330-20-7)
TOLUENE DIISOCYANATE MIX (26471-62-5)
ETHYL BENZENE (100-41-4)



(section 15 continued)

CA Proposition 65

Confidential Ingredient A
TOLUENE DIISOCYANATE MIX (26471-62-5)

SC Toxic Air Pollutants List

Confidential Ingredient A
XYLENE (1330-20-7)
ETHYL BENZENE (100-41-4)

16. OTHER INFORMATION

PREPARED BY: Chemist
APPROVED BY: Laura Vollenweider
TITLE: Chemist
APPROVAL DATE: September 15, 2008
SUPERCEDES DATE ...: May 5, 2008
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