

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Toluene
Synonyms: Methylbenzene, Toluol
Chemical Name: Toluene
Chemical Family: Aromatic Hydrocarbon
CAS Number: 108-88-3

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)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
TOLUENE	100.0 %	108-88-3

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
* CAUTION *
*
* Prolonged or repeated contact may cause skin or eye *
* irritation. Harmful if swallowed. Flammable *
* liquid and vapor. *
* *
*****

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(section 3 continued)

HMIS Rating -	Health:	2
	Flammability:	3
	Reactivity:	0
	Personal Protection Index:	N/A

POTENTIAL HEALTH EFFECTS

EYE:

Causes eye irritation.

SKIN:

Causes skin irritation.

INHALATION:

Excessive exposure to vapors can cause eye and respiratory tract irritation, headache, nausea, drowsiness, dizziness, tingling sensation, and/or narcosis.

INGESTION:

Unlikely to occur. May be harmful if swallowed. Seek immediate emergency medical care if ingestion occurs.

REPRODUCTIVE HAZARDS:

Possible reproductive hazard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Persons with asthma-like conditions or other lung function impairment may experience 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 medical attention if irritation develops or persists.

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 medical attention if cough or other symptoms develop.



(section 4 continued)

INGESTION FIRST AID:

Get immediate medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: 5.0 C (41.0 F)

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: 1.0 %

UEL: 7.0 %

EXTINGUISHING MEDIA:

Carbon dioxide, foam, or dry powder.

FIRE & EXPLOSION HAZARDS:

Extremely Flammable. Closed containers may rupture or explode when exposed to extreme heat. Never use welding or cutting torches on containers, even if empty because residue may provide explosion hazard.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water may be used only to cool containers exposed to heat.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear safety goggles. Wear appropriate personal protective equipment.

INITIAL CONTAINMENT:

Provide explosion proof ventilation. Eliminate all sources of ignition - heat, sparks, flame, electricity, and impact. Contain spilled material.

LARGE SPILLS PROCEDURE:

Dike spill to prevent entry into sewer or water systems. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Protect workers from excessive vapor or skin contact.



7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 15.6 C (60.1 F)
Maximum: 26.7 C (80.1 F)

SHELF LIFE: (in original, sealed containers)

8 months @ 26.7 C

HANDLING (PERSONNEL):

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

HANDLING (PHYSICAL ASPECTS):

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction. Keep out of reach of children. Do not apply to hot surfaces. Do not pressurize drum containers to empty them.

STORAGE PRECAUTIONS:

Store in a cool, dry, well ventilated place, away from heat and ignition sources. Keep container closed when not in use.

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:

No Information Available.



9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Clear
ODOR: Aromatic
BOILING POINT: 230 F
VAPOR DENSITY: >1.0 (Air = 1)
SOLUBILITY IN WATER: Nil
SPECIFIC GRAVITY: 0.9 (Water = 1)
EVAPORATION RATE: Slower than ether
MOLECULAR WEIGHT: 92.13
VOLATILE ORGANIC COMPOUNDS (VOC) ...: 7.25 lb/gal (868 g/L)

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with strong oxidizing agents; caustics and strong acids.
Avoid prolonged contact with with nitrile rubber and PVC.

DECOMPOSITION:

Decomposition will not occur if handled and stored properly.

CONDITIONS TO AVOID:

Avoid sources of ignition and heat.

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: Toluene
D.O.T. HAZARD CLASS ...: Flammable Liquid
UN NUMBER: UN 1294, II

15. REGULATORY INFORMATION

Canadian Disclosure List

Toluene (108-88-3)

SARA Title III - Section 313

Toluene (108-88-3)

CERCLA Hazardous Substances

Toluene (108-88-3) -- RQ 1000 lb

RCRA Hazardous Substances

Toluene (108-88-3) -- RCRA Code: U220

Title V

Toluene (108-88-3)

CA Proposition 65

Toluene (108-88-3)

SC Toxic Air Pollutants List

Toluene (108-88-3)



16. OTHER INFORMATION

PREPARED BY: Laura
APPROVED BY: Laura Vollenweider
TITLE: Chemist
APPROVAL DATE: January 29, 2004
SUPERCEDES DATE ...: January 29, 2004
MSDS NUMBER: ctgo00tol
RTN NUMBER: 00000043 (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

