

GenFlex Roofing Systems, LLC

Material Safety Data Sheet

February 27, 2009

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SECTION 1: PRODUCT IDENTIFICATION

Product Name: Clear Primer LVOC
Chemical Name / Synonym: None
Chemical Family: Mixture
24-Hour Emergency Phone: (800) 424-9300 CHEMTREC
Manufacturer's Name: GenFlex Roofing Systems, LLC
Manufacturer's Address: 250 West 96th Street, Indianapolis, IN 46260
NFPA Hazard Rating: Health 2, Flammability 3, Reactivity 0
HMIS Hazard Rating: Health 2, Flammability 3, Reactivity 0

SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
4-Chloro-alpha,alpha,alpha-trifluorotoluene	Oxsol 100	98-56-6	72	None Established
Toluene	Toluol	108-88-3	20	PEL 200 ppm OSHA Ceiling 300 ppm TLV 20 ppm
Nonhazardous as per 29 CFR 1910.1200.	None	None	8	None Established

SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure: Skin absorption, inhalation, eye contact.

Signs and Symptoms of Exposure: Eye contact may cause irritation, redness, tearing and blurred vision. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Absorption through intact skin may contribute to an individual's overall exposure. Inhalation may cause respiratory system irritation and central nervous system depression (narcosis) characterized by headache, dizziness, muscular weakness and fatigue. Inhalation of Oxsol may cause bronchitis, pneumonia, and pulmonary edema. Inhalation of Toluene vapors above 200 ppm may result in impairment of coordination, increased reaction time and a bad taste in the mouth. May cause unconsciousness if exposure is excessive. Oxsol 100 LD₅₀: 13 g/kg, rat; Toluene LC₅₀: 8,000 ppm/4hr, rat; Toluene LD₅₀: 5 g/kg, rat. While ingestion is unlikely, may cause gastrointestinal tract irritation and damage to the gastrointestinal tract lining.

Medical Conditions Aggravated by Exposure: Exposure to this product may aggravate pre-existing skin and respiratory diseases.
Toluene exposures have caused birth defects in laboratory animals when exposures were at concentrations that harmed the pregnant animal. The relevance of these findings to humans

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Chronic Effects:	is uncertain. May cause kidney, liver, spleen and central nervous system damage. May affect the blood, metabolism, and urinary system based upon animal studies.
Carcinogenicity:	Toluene is listed by IARC as a class 3, <i>unclassifiable as to carcinogenicity in humans</i> .

SECTION 4: FIRST AID MEASURES

First Aid Procedures:	If this material contacts the eyes, hold eyelids open and flush immediately with a gentle stream of water for at least 15 minutes, preferably at an eyewash fountain. Get medical attention. In case of skin contact, clean with rubbing alcohol first, followed immediately by washing affected area with soap and water. In case of inhalation, remove to fresh uncontaminated air. Administer oxygen if breathing is labored. Give artificial respiration if breathing has stopped. Get medical attention immediately if oxygen or artificial respiration are administered. In case of accidental ingestion, do not induce vomiting. Get medical attention and advise the physician of the nature of the material.
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SECTION 5: FIRE FIGHTING PROCEDURES

Suitable Extinguishing Media:	Foam, water spray, (fog), carbon dioxide, dry chemical, and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this product. Water may be ineffective, but should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water to disperse the vapors and to protect persons attempting to stop a leak. Water spray may be used to flush spills away from exposures.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, nitrogen oxides, fluorine gas, hydrocarbons, acrid smoke and irritating fumes.
Recommended Fire Fighting Procedures:	Wear impermeable protective clothing and self-contained breathing apparatus. Toxic fumes or vapors may be produced.
Unusual Fire and Explosion Hazards:	This product is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:	Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product clear of sewers, water, or extensive land areas. Assure conformity with applicable government regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.
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Precautions to Be Taken in Handling and Storing:

Store in cool location, keeping away from heat, sparks, and open flames. Keep containers closed. Store as a flammable liquid. Vapors of this material are heavier than air and will collect in low or confined areas. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground all transfer containers and equipment.

SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:

Use with ventilation sufficient to prevent exceeding recommended exposure limits or build up of explosive concentrations of vapor in air.

Respiratory Protection:

If personal exposure concentrations cannot be maintained below the appropriate exposure limits using engineering controls, a NIOSH approved respirator may be appropriate based on employer-determined exposure levels.

Eye Protection:

The use of safety glasses with side shields when pouring or applying this product may be warranted.

Skin Protection:

The use of polyvinyl alcohol, nitrile rubber, or neoprene gloves when handling this product to avoid prolonged skin contact may be warranted.

Other:

Not required.

Work / Hygienic Practices:

Wash exposed skin prior to eating, drinking or smoking and at the end of each shift. Wash contaminated clothing prior to reuse.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:

Clear liquid with characteristic odor.

Flash Point:

39°F

Lower Explosive Limit:

1.2%

Method Used:

Unknown

Upper Explosive Limit:

7.0%

Evaporation Rate:

Unknown

Boiling Point:

230°F

pH (undiluted product):

Unknown

Melting Point:

Not Applicable

Solubility in Water:

Not miscible or difficult to mix

Specific Gravity:

1.19
(Water=1)

Vapor Density:

Unknown (Air=1)

Percent Volatile:

90.5%

Vapor Pressure:

22 mm Hg @ 20°C

Ignition Temperature:

995°F

SECTION 9: STABILITY AND REACTIVITY

Thermal Stability:

Stable

Hazardous Polymerization:

Will not occur

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Conditions to Avoid:	Avoid flames, sparks or other sources of ignition. Avoid contact with sodium dimethylsulfinate. Incompatible with acids, alkalis, reactive metals and strong oxidizing agents.
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SECTION 10: TRANSPORTATION

Regulatory Agency:	U.S.A.. DOT
Proper Shipping Name:	Adhesives, <i>containing a flammable liquid</i>
Hazard Classification:	3
Identification Number:	UN1133
Packing Group:	II
Labels Required:	Flammable
Other Requirements:	None known

SECTION 11: MISCELLANEOUS INFORMATION

Additional Comments:	None
Date of Previous MSDS:	Not applicable. New product.
Changes Since Previous MSDS:	Not applicable
Telephone Number for Additional Information:	(317) 575-7190

DISCLAIMER

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. GenFlex Roofing Systems, LLC, a subsidiary of Firestone Diversified Products, LLC, assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, GenFlex Roofing Systems, LLC assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.