

# GenFlex Roofing Systems, LLC

## Material Safety Data Sheet

March 30, 2009

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### SECTION 1: PRODUCT IDENTIFICATION

Product Name:	TPO Bonding Adhesive LVOC
Chemical Name/Synonym:	None
Chemical Family:	Polychloroprene Based Adhesive
24-Hour Emergency Phone:	(800) 424-9300 CHEMTREC
Manufacturer's Name:	GenFlex Roofing Systems, LLC
Manufacturer's Address:	250 West 96 <sup>th</sup> 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:
Tert-butyl Acetate	None	540-88-5	30-60	OSHA PEL 200 ppm ACGIH TLV 200 ppm
Acetone	Methyl Ketone	67-64-1	10-40	OSHA PEL 1000 ppm ACGIH TLV 500 ppm ACGIH STEL 750 ppm
Toluol	Toluene	108-88-3	1-6	OSHA PEL 200 ppm OSHA CEIL 300 ppm ACGIH TLV 20 ppm
Acetic Acid, Methyl Ester	Methyl Acetate	79-20-9	1-15	OSHA PEL 200 ppm ACGIH TLV 200 ppm ACGIH STEL 250 ppm
Nonhazardous as per 29 CFR 1910.1200.	None	TSCA Registered	<58	None Established

### SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure:	Skin Absorption, Inhalation
Signs and Symptoms of Exposure:	Eye contact may cause severe eye 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 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. Acetone LC <sub>50</sub> : 16,000 ppm/4hr, rat; Acetone LD <sub>50</sub> : 9.8 g/kg, rat; Toluene LC <sub>50</sub> : 8,000 ppm/4hr, rat; Toluene LD <sub>50</sub> : 5 g/kg, rat; Methyl acetate LD <sub>50</sub> : 3700 mg/kg, rabbit.
Medical Conditions Aggravated by Exposure:	Exposure to this product may aggravate pre-existing skin, ocular and respiratory diseases. Individuals with neurological diseases should avoid exposure to hexane.

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Chronic Effects:	May cause kidney and spleen damage. May cause brain cell and neuromuscular damage based upon animal studies. May cause atrophy of the optic nerve.
Carcinogenicity:	Toluene is listed by IARC as a class 3, <i>unclassifiable as to carcinogenicity in humans</i> .

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### SECTION 4: FIRST AID MEASURES

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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

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Suitable Extinguishing Media:	Carbon dioxide, dry chemical, alcohol foam or water fog. Do not use a direct stream of water. Product will float and can be reignited on the surface of the water.
Hazardous Combustion Products:	Carbon dioxide and carbon monoxide, oxides of nitrogen, hydrogen chloride, various hydrocarbons, acrid smoke and irritating fumes.
Recommended Fire Fighting Procedures:	Wear impermeable protective clothing and self-contained breathing apparatus. Toxic fumes and vapors may be evolved.
Unusual Fire and Explosion Hazards:	Heat builds up pressure in closed containers. Cool with water stream.

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### SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

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Steps to Be Taken in Case Material is Released or Spilled:	Remove ignition sources. Do not allow material to reach sewage system or surface or ground water. Absorb on inert material. Use non-sparking tools. Place in secure containers for disposal.
Precautions to Be Taken in Handling and Storing:	Keep away from heat, sparks, and open flames. Keep containers closed. 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.

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### SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

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Ventilation:	Use in a well-ventilated location.
Respiratory Protection:	If personal exposure concentrations cannot be maintained below the appropriate exposure limits using engineering controls, a NIOSH certified organic vapor air purifying respirator may be appropriate based on

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	employer-determined exposure levels. Air supplied or SCBA respirators may be required when the measured chemical concentration exceeds the capacity of the air purifying respirator or when personal exposure levels are unknown.
Eye Protection:	Safety glasses with side shields may be needed as determined by end-user.
Skin Protection:	Chemical resistant gloves may be required for direct handling. The need and type is to be determined by the end-user.
Other:	Not required.
Work / Hygienic Practices:	Wash exposed skin prior to eating, drinking and smoking and at the end of each shift. Wash contaminated clothing prior to reuse.

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### SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

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Appearance and Odor:	Amber liquid with strong camphor-like odor.		
Flash Point:	-19° C	Lower Explosive Limit:	2.6%
Method Used:	Unknown	Upper Explosive Limit:	13%
Ignition Temp:	869° F	Boiling Point:	131° F
Evaporation Rate:	Unknown (Ether=1)	Melting Point:	Unknown
pH (undiluted product):	Unknown	Specific Gravity:	0.899 (Water=1)
Solubility in Water:	Not miscible or difficult to mix	Vapor Pressure:	175 mm Hg @ 20° C
Vapor Density:	Unknown (Air=1)	Percent Volatile:	77%

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### SECTION 9: STABILITY AND REACTIVITY

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Thermal Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Avoid flames, sparks or other sources of ignition. Incompatible with acids, alkalies and strong oxidizing agents.

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### SECTION 10: TRANSPORTATION

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

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### SECTION 11: MISCELLANEOUS INFORMATION

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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

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### DISCLAIMER

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