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**MATERIAL SAFETY DATA SHEET**

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**MON-ECO INDUSTRIES, INC.**  
**5 JOANNA COURT**  
**EAST BRUNSWICK, NJ 08816-2108**  
**PHONE: 732-257-7942**  
**FAX: 732-257-6525**

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**I. GENERAL INFORMATION**

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DATE: August 1, 2002  
SUPERCEDES: February 12, 1998  
MON-ECO CODE: **44-50/44-52/44-53**  
TRADE NAME & SYNONYMS: **Eco-Duct Seal**  
CHEMICAL FAMILY: Solvent Based Adhesive  
PROPER DOT SHIPPING NAME: Flammable Liquid, N.O.S., 3, PG III.  
DOT HAZARD CLASSIFICATION: UN 1993  
FOR EMERGENCY CONTACT CHEM-TEL, INC. 1-800-255-3924

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**II. INGREDIENTS**

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PRINCIPAL HAZARDOUS COMPONENTS	CAS#	THRESHOLD	LIMIT VALUE
Toluene	18% by wt.	108-88-3	100 ppm
Hexane	22% by wt.	110-54-3	50 ppm

These chemicals are subject to the reporting requirements of Section 313 of SARA Title III. OSHA, NTP or IARC does not class the ingredients in this product as carcinogens. The ingredients in this product are on the TSCA Inventory.  
HAZARD RATING: Health-2, Flammability-3, Reactivity-0

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**III. PHYSICAL DATA**

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BOILING POINT: 150°F  
SPECIFIC GRAVITY (WATER=1): 1.04  
VAPOR PRESSURE (mmHg.): 180  
PERCENT VOLATILE: 40% by weight  
VAPOR DENSITY (AIR=1): 3  
EVAPORATION RATE (=1): 12  
SOLUBILITY IN WATER: Not soluble.  
APPEARANCE & ODOR: Soft paste, mild odor.  
VOLATILE ORGANIC CONTENT: 3.45 lbs/gal  
414 grams/liter

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**IV. FIRE & EXPLOSION HAZARD DATA**

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FLASH POINT (TEST METHOD): Tag closed cup. <0°F  
FLAMMABLE LIMITS: LEL: 1.2%  
UEL: 6.9%  
EXTINGUISHING MEDIA: Foam, dry chemical CO<sub>2</sub>, water fog or spray.  
SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied breathing equipment for enclosed areas. Avoid breathing of vapor or fumes.  
UNUSUAL FIRE & EXPLOSION HAZARDS: Heat may build up pressure in closed containers. Cool exposed containers with water spray.

**44-50 / 44-52 / 44-53 MSDS**

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**V. HEALTH HAZARD DATA**

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Permissible Exposure Level 50 ppm

Threshold Limit Value 50 ppm

Effects Of Acute Overexposure:

Eyes: can cause severe irritation, redness, tearing, blurred vision.

Skin: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

Breathing: 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.

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

First Aid:

If on skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

If in eyes: Flush with large amounts of water. Lifting upper and lower lids occasionally. Get medical attention.

If swallowed: Do not induce vomiting. Keep person warm, quiet and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

If breathed: If affected remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet and get medical attention.

Primary Route (S) of Entry:

Inhalation, skin contact.

Effects of Chronic Overexposure:

Prolonged or repeated exposure to N-Hexane may damage peripheral nerve tissue (that of the arms and legs) and result in muscular weakness and loss of sensation in the extremities (Peripheral Neuropathy). Methyl Ethyl Ketone may potentiate (shorten the time of onset) peripheral neuropathy caused by N-Hexane). Prolonged and repeated inhalation of high levels of mixed isomers of Hexane resulted kidney damage in male rats. The effects observed are the same of those seen in male rats exposed to other hydrocarbons. The mechanism by which these chemicals cause the characteristic kidney toxicity is unique to the male rat and the kidney effects are not expected to occur in man. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans and may aggravate pre-existing disorders of these organs, central nervous system, and visual impairment.

**44-50 / 44-52 / 44-53 MSDS**

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**VI. REACTIVITY DATA**

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STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY:

MATERIALS TO AVOID: Strong oxidants like liquid chlorine.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None

HAZARDOUS DECOMPOSITION OF PRODUCTS: Burning may produce toxic fumes or oxides of carbon.

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**VII. ENVIRONMENTAL PROTECTION PROCEDURES**

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SPILL RESPONSE: Scrape and wipe up. Place in sealed container and remove.

WASTE DISPOSAL METHOD: Approved site. Obey local, state and federal regulations.

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**VIII. SPECIAL PROTECTION PROCEDURES**

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EYE PROTECTION: Splash goggles or safety glasses.

SKIN PROTECTION: Neoprene gloves.

RESPIRATORY PROTECTION (SPECIFIC TYPE): NIOSH approved dual cartridge respirator with cartridges suitable for organic solvent vapor.

VENTILATION RECOMMENDED: Local exhaust = to outdoors.

OTHER PROTECTION: Eye wash, safety shower.

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**IX. SPECIAL PRECAUTIONS**

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HYGIENIC PRACTICES IN HANDLING & STORAGE:

Flammable mixture. Do not store near heat, sparks or open flame. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapor or contact with skin. Do not take internally in an emergency call a physician. Keep out of reach of children.

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**X. SUPPLEMENTAL INFORMATION**

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Do not store with strong oxidants like liquid chlorine or concentrated oxygen.  
WARNING-This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

*While Mon-Eco Industries, Inc. believes that the data here is factual. The data is not to be considered a warranty or representation for which Mon-Eco Industries, Inc. assumes legal responsibility. The data is offered solely for your consideration, investigation and verification. The user must determine if any use of this information is in accordance with applicable federal, state and local regulations.*