

# NORLAND PRODUCTS

2540 Route 130, Suite 100, P.O. Box 637, Cranbury, NJ 08512  
Tel. (609) 395-1966 Fax (609) 395-9006

## MATERIAL SAFETY DATA SHEET

### Norland Index Matching Liquid 150

For information or emergency: Telephone 609-395-1966

Date prepared November 1, 2003

## I. PRODUCT INFORMATION

TRADE NAME: Norland Index Matching Liquid 150

SYNONYMS: IML 106

CHEMICAL NAME: Triallyl Trimellitate

|              |   |
|--------------|---|
| HEALTH       | 1 |
| FLAMMABILITY | 1 |
| REACTIVITY   | 1 |
| PROTECTIVE   | B |

### Hazard Rating

4 - Extreme

3 - Serious

2 - Moderate

1 - Slight

0 - Minimal

B - Gloves & Eye Protection

## II. HAZARDOUS COMPONENTS

| COMPONENTS    | CAS#     | OSHA PEL | ACGIH TLV | LD50 | LC50 |
|---------------|----------|----------|-----------|------|------|
| Allyl Alcohol | 107-18-6 | 2 ppm    | NE        | NE   | 0.01 |

NA = Not Applicable NE = Not Established ND = Not Determined

All chemicals used for manufacturing this product are included on the TSCA list of chemical substances.

## III. PHYSICAL DATA

BOILING POINT: 160°C/320°F

SPECIFIC GRAVITY (H2O=1): 1.16

VAPOR PRESSURE: NA

MELTING POINT: Liquid at room temperature.

VAPOR DENSITY (AIR=1): >1

EVAPORATION RATE (BA=1): <1

SOLUBILITY IN WATER: Insoluble

PERCENT VOLATILE BY VOLUME: <.1

ODOR AND APPEARANCE: Pale liquid, mild odor.

## IV. FIRE AND EXPLOSION DATA

FLASH POINT: 203°F open cup  
EXTINGUISHING MEDIA: Carbon Dioxide, foam or dry chemical.  
SPECIAL FIRE FIGHTING PROCEDURES: None  
UPPER FLAMMABLE LIMIT (% By Volume): ND  
LOWER FLAMMABLE LIMIT (% By Volume): ND  
AUTO IGNITION TEMPERATURE (°C): NA  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Fumes of allylic compounds may be produced.

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#### **V. REACTIVITY DATA**

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CHEMICAL STABILITY: Product is stable. Avoid temperatures above 105°F/65°C. Oxidizers or actinic radiation may cause non-hazardous polymerization.  
HAZARDOUS DECOMPOSITION PRODUCTS: None  
HAZARDOUS POLYMERIZATION: Will not occur.

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#### **VI. HEALTH HAZARD DATA**

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ROUTES OF ENTRY: Inhalation, skin or ingestion.  
EFFECTS OF EXPOSURE:  
ACUTE: May cause dermatitis, shortness of breath, fainting, headaches and nausea.  
CHRONIC: Repeated contact may cause sensitization in some individuals.  
EXPOSURE LIMITS: None established for mixture.  
LD50 (Mixture): No data for mixture  
LC50 (Mixture): No data for mixture  
CARCINOGENICITY: None  
TERATOGENICITY: No  
REPRODUCTIVE TOXICITY: No  
MUTAGENICITY: No  
SIGNS AND SYMPTOMS OF EXPOSURE: Skin rash in area of contact.  
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin allergies, asthma bronchitis, emphysema and other respiratory disorders.  
EMERGENCY AND FIRST AID PROCEDURES: If contact on skin, immediately wash area with soap and water. If implanted in eyes, immediately wash the eyes with copious amounts of water. Occasionally lifting lower and upper eyelids. Continue for 15 minutes. Get medical attention If swallowed, dilute with milk or water. Get medical attention.

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#### **VII. PRECAUTIONS FOR SAFE HANDLING AND USE**

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STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: Wipe up with absorbent material and rinse with non-polar solvent.  
WASTE DISPOSAL METHOD: Incinerate in accordance with Federal, State and Local regulations.  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: This material should not be ingested or taken internally. Spraying as aerosol or mist not recommended. If this is done, protection must be taken against inhalation.

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#### **VIII. CONTROL MEASURES**

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PERSONAL PROTECTIVE EQUIPMENT:  
GLOVES: Nitrile or butyl rubber.  
RESPIRATOR: Not required under normal operating conditions.  
EYE: Safety glasses.  
VENTILATION REQUIREMENTS: Use local or mechanical exhaust.  
WORK HYGIENIC PRACTICES: If clothing gets contaminated, wash before re-wearing. Practice good housekeeping and vigorous personal hygiene to minimize contact with material

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#### **IX. PREPARATION DATE OF MSDS**

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PREPARED BY: Material Safety Department  
TELEPHONE: 609-395-1966  
EMERGENCY TELEPHONE: 609-395-1966  
DATE: November 1, 2003  
SUPERSEDES: March 1, 2001

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All components of this product are in compliance with the Toxic Substances Control Act (TSCA) inventory.

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