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Norland Index Matching Liquid 150



Norland Index Matching Liquid 150 is a low viscosity liquid monomer that can be used as an index matching media for temporary splicing using the Norland Optical Splice. This material will not cure and will always remain a liquid.

Normal index matching silicone fluids and gels can cause adhesion problems because once it contacts a surface it is very difficult to remove all traces. Our IML 150 can be removed with acetone.

Typical Properties

Appearance	Light yellow liquid
Viscosity	100 cps
Refractive Index nD	1.52

Available in 6cc syringes (P/N 9006).

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NORLAND PRODUCTS

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MATERIAL SAFETY DATA SHEET

Norland Index Matching Liquid 150

For information or emergency: Telephone 609-395-1966

Date prepared March 1, 2001

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
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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.

V. REACTIVITY DATA

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.

VI. HEALTH HAZARD DATA

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.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

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.

VIII. CONTROL MEASURES

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

IX. PREPARATION DATE OF MSDS

PREPARED BY: Material Safety Department

TELEPHONE: 609-395-1966

EMERGENCY TELEPHONE: 609-395-1966

DATE: March 1, 2001

SUPERSEDES: August 20, 1997

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The chemicals used to manufacture this product are all listed with the Toxic Substances Control Act (TSCA) inventory.

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