



Material Safety Data Sheet

SECTION 1: PRODUCT NAME AND COMPANY INFORMATION

Product Name: LTI-HT-825 TINTABLE COATING

Product Number: 8343800

Issue Date: May 25, 2011

Supersedes Date:

February 7, 2007

Manufactured By:

Lens Technology I, LLC
14256 Firestone Blvd
La Mirada, CA 90638-5524

Distributed By:

Coburn Technologies
55 Gerber Road
South Windsor, CT 06074

(714) 690-6470

Telephone: (800) 262-8761

24-Hour Emergency Contact Number (North America): 800-255-3924

24-Hour Emergency Contact Number (International): 813-248-0585

Emergency Overview

Pale yellow, thin liquid with an alcohol odor. LTI-HT-825 is flammable and may release hazardous combustion by-products. Overexposure to this product or its components may cause severe health effects that may not be reversible or could be fatal

SECTION 2: COMPOSITION (Hazardous Components First)

<u>Chemical Name</u>	<u>Synonyms</u>	<u>Percentage</u>	<u>CAS#</u>
Propylene glycol monomethyl ether	PM Solvent		000107-98-2
N-Propoxy propanol	Propasol		001569-01-3
N-Propanol	1-Propanol		000071-23-8
Acrylated Monomer/Oligomer Blend	N/A		Proprietary
Photo Initiator			Proprietary

Contains some proprietary non-hazardous compounds that are not listed
(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

SECTION 3: Hazards Identification

Potential Health Effects

INHALATION: Harmful if inhaled. May effect the brain or nervous system causing dizziness, headache or nausea. Can irritate the nose and throat. May cause an allergic respiratory reaction similar to an asthma attack. Aerosols can be irritating to the respiratory passages. **INGESTION:** Harmful if swallowed. **SKIN CONTACT:** Causes skin irritation. **EYE CONTACT:** Causes Eye Irritation. The kidney, liver and blood may be targeted by components of LTI-HT-825.

Fire and Explosion

LTI-HT-825 is a flammable liquid with a flash point of 91 deg. F SETA closed cup. Both the LEL and UEL have not been determined. Products of combustion include carbon dioxide and carbon monoxide, nitrogen oxides, acrid fumes and volatile organic fractions. The exact composition of the combustion by-products will depend on the conditions of combustion. In a fire situation, closed

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containers may rupture violently when exposed to heat. Toxic and/or irritating vapors may be released during a spill. Combustion by-products may be hazardous.
(See Reactivity Section)

SECTION 4: First Aid

Signs and Symptoms of Overexposure

Symptoms or signs of potential overexposure to LTI-HT-825 or its components may include: headache, lethargy, skin rashes, hives, respiratory irritation resulting in coughing or wheezing, disoriented or drunkenness behavior, nausea, vomiting, eye reddening, conjunctivitis, itching, burning or other irritation of the skin and burning or other irritation of the eye.

Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin:

In case of contact, immediately wash exposed skin with plenty of soap and water for at least 15 minutes. Seek medical advice if a rash or irritation persists. Wash clothing before reuse. Destroy contaminated shoes and other leather goods or apparel.

Inhalation:

If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give CPR. Get medical attention immediately.

Ingestion:

If swallowed, seek medical advice immediately.

SECTION 5: Fire Fighting Measures:

Use dry powder, CO₂, foam or water fog to extinguish fires involving this product. Water and/or water fog may cause frothing and should be applied carefully. SCBA and Full Body protection must be worn. Use water only to cool containers exposed to the heat of a fire. Contain water run-off from entering drains, streams and lakes. Disperse vapors using a fog pattern. Keep upwind of fire or vapor clouds.

SECTION 6: Accidental Release Measures

SMALL SPILLS (a pint or two)

Cover with absorbent material (Expanded vermiculite or kitty litter). When liquid is fully absorbed, sweep into a plastic bag.

LARGE SPILLS

Prevent build-up of vapors, by covering with absorbent material. Pay particular attention to confined areas or storm drains. TURN OFF POWER AT A REMOTE SWITCH PANEL. Remember that turning equipment ON or OFF will cause an arc for possible ignition of vapor. Use spark-proof tools and conductive shoes to avoid sparking hazards. Dispose of in accordance with all applicable regulations.

SECTION 7: Handling and Storage

LTI-HT-825 is flammable and should be stored away from potential ignition sources. Keep away from heat, sparks and flame. Vapors may ignite explosively. Vapors may spread over long distances.

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Close container after each use. Drums should be grounded while dispensing. Do not get in eyes, on skin or on clothing. Use only with adequate ventilation.

SECTION 8: Exposure Controls/Personal Protection

In that each work area varies, it is important that an Industrial Hygiene review be made of the process to establish exposure levels. Appropriate engineering controls should be designed and installed to prevent levels from exceeding the established TLV's. When engineering controls can not be put in place, air purifying respirators are required for exposures up to 10 times the TLV and positive pressure supplied for air respirators for exposure above 10 times the TLV. Ideally ventilation ducts must be tight so odors of the coating are not objectionable

Due to the potential harmful characteristics of LTI-HT-825 care needs to be taken to prevent skin exposure. Suitable emergency shower facilities or other sufficient water supply is required to be available for emergency use. Eye protection including safety glasses and /or face shields should be worn whenever the potential exists that LTI-HT-825 could attack the eye. This includes while dispensing or spraying if applicable. Suitable emergency eye wash facilities or other sufficient water supply is required to be available for emergency use. Good personal hygiene practices should be followed to prevent accidental consumption. This includes ensuring personnel wash after handling LTI-HT-825 and prior to smoking, eating or consuming tobacco items like chewing tobacco or applying cosmetics.

Chemical Protective Equipment

<u>Butyl Rubber</u>	<u>Viton</u>	<u>Chlorinated Polyethylene</u>	<u>Nitrile</u>	<u>Urethane</u>	<u>Vinyl</u>	<u>Natural Rubber</u>	<u>Neoprene</u>

- A = Recommended
- B = Minor to Moderate Effect
- C = Conditional
- X = Not Recommended
- I = Insufficient Data to Rate

Exposure Guidelines

<u>Chemical Name</u>	<u>TLV</u>	<u>STEL</u>	<u>Other Limits</u>	<u>Source of Other Limits</u>
Propylene glycol monomethyl ether	100ppm	150ppm	100ppm	
Acrylated Monomer/Oligomer Blend	None			
N-Propoxy propanol	None			
N-Propanol	200ppm	250ppm		
Photo Initiator				

* - Indicates as Respirable Dust or Mists. All other particles not otherwise classified such as dusts from sanding or mists from spraying should be maintained below 10 mg/m³ as recommended by the ACGIH.

SECTION 9: Physical and Chemical Properties

Boiling Point - Degrees F: >200

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Specific Gravity:	0.98
Pounds/:Gallon:	8.15
Percent Volatiles:	55
Odor:	alcohol
Color:	Pale yellow
Solubility (water):	<60%
Viscosity:	5.44 cps @25 deg. C
Physical State:	liquid
Dry Time:	ND
Melting Point - degrees F	ND
Vapor Pressure:	5.5

SECTION 10: Stability and Reactivity

LTI-HT-825 may form peroxides if allowed to evaporate to dryness. These peroxides can be shock sensitive and explosive. LTI-HT-825 or individual components may react with strong oxidizers, corrosives, surface active material, metallic compounds and heat. Reaction by-products may include carbon dioxide and carbon monoxide and acrid fumes and volatile organic fraction.

SECTION 11: Toxicological Information

Acute Oral:

Harmful if Swallowed

Acute Dermal:

Skin sensitizer. May cause allergenic skin reaction. May be harmful if absorbed through the skin

Inhalation Toxicity:

Harmful if inhaled. May effect the brain or nervous system causing dizziness, headache or nausea. Can irritate the nose and throat. May cause an allergic respiratory reaction similar to an asthma attack. Aerosols can be irritating to the respiratory passages.

Eye Irritation:

Causes Eye Irritation.

Skin Irritation:

Causes Skin Irritation.

Chronic Effects:

Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Possible cancer hazard. Contains ingredients that may cause cancer based on animal data. Risk of cancer depends on duration and level of exposure. Contains ingredients that may cause organ damage based on animal studies. Contains a component considered to be mutagenic or teratogenic by California.

Organs Targeted by Exposure:

The kidney, liver and blood may be targeted by components of LTI-HT-825.

SECTION 12: Ecological Information:

Not Evaluated.

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SECTION 13: Disposal Considerations:

Based on our understanding of the federal hazardous waste regulations, LTI-HT-825 is a federally defined characteristic waste due to flammability. LTI-HT-825 contains (a) CERCLA listed hazardous substance(s). Improper disposal could result in environmental contamination and potential liability under Superfund. It is the user's responsibility to appropriately classify and dispose of all industrial wastes in compliance with all federal, state, municipal and local requirements.

SECTION 14: Transport Information:

HM 181 Required Information

DOT SHIPPING NAME:	CHEMICAL noi
EXPORT SHIPPING NAME:	COATING SOLUTION, 3,UN1139, PGIII
LABEL	FLAMMABLE LIQUID
RQ	None
DOT GUIDEBOOK:	26

IATA Restrictions

	<u>Packing</u> <u>Instructions</u>	<u>Quantity</u> <u>Limits</u>
Passenger Air Exempt	Y309	10 L
Passenger Air	309	60 L
Cargo Air Only	310	220 L

SECTION 15: Regulatory Information:

SARA Title III

<u>CAS#</u>	<u>Chemical Name</u>	<u>304</u>	<u>313</u>	<u>EHS</u>	<u>Wt%*</u>
000107-98-2	Propylene glycol monomethyl ether (PM)	NO	NO	NO	
001569-01-3	N-Propoxypropanol	NO	NO	NO	
000071-13-8	N-Propanol	NO	NO	NO	
CNK	Acrylated Monomer/Oligomer Blend	NO	NO	NO	
CNK	Photoinitiator	NO	NO	NO	

CNK - *Some Components Not Known*

*SARA Regulated Components Only

TSCA

All components comply with TSCA Inventory requirements.

OSHA

LTI-HT-825 is considered a hazardous chemical according to our interpretation of the OSHA Hazard Communication Standard.

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Hazard Ratings

	<u>HMIS</u>	<u>NFPA</u>	Personal Protective Index
HEALTH	3	2	Because workplace conditions, environments and means of application differ, we cannot make specific
FIRE	2	3	
REACTIVITY	0	0	
PERS. PROT. INDEX	NA		

SECTION 16: Other Information:

Information Contact:

Lens Technology I, LLC
General Manager
14256 Firestone Blvd
La Mirada, CA 90638
(714) 690-6470 (for questions and emergencies)
(800) 535-5053---24 hour EMERGENCY / TRANSPORTATION NUMBER

MSDS Review Committee Approval:

Prepared: Sung Y. Tark
Technical Department- _____ February 7, 2007
Date

Approved:
General Manager- _____ February 7, 2007
Date

The data in this MSDS has been compiled from publicly available sources (some of which are identified below). This data relates only to the designated product and not to the use of said product in combination with other materials. Because conditions and circumstances of use of the product are beyond our control and any summary of data such as is represented by this MSDS is inherently incomplete, Lens Technology I, LLC makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. Responsibility for proper precautions and safe use of the product lies with the user.

SOURCES

CHEMICAL GUIDE TO THE OSHA HAZARD COMMUNICATION STANDARD, Kenneth B. Clauski, Roytech Publications Inc., 1986
1990 EMERGENCY RESPONSE GUIDEBOOK: U.S. Department of Transportation, DOT P - 5800.4, 1987
DOCUMENTATIONS OF THE THRESHOLD LIMIT VALUES and BIOLOGICAL EXPOSURE INDICES, 5th Edition, American Conference of Governmental Industrial Hygienists, 1986
DANGEROUS PROPERTIES of INDUSTRIAL MATERIALS, 6th Edition, N. Irving Sax, Van Nostrand Reinhold Co., 1984
SARA TITLE III - COMMUNITY RIGHT TO KNOW COMPLIANCE GUIDE, Professional Associates in Regulatory Services, 1987
NIOSH POCKET GUIDE TO CHEMICAL HAZARDS, U.S. Department of Health & Human Services DHHS(NIOSH) Publication No.90-117, June 1990

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DANGEROUS GOODS REGULATIONS (IATA Resolution 618, attachment "A"), International Air Transport Association,
32nd Edition Effective 1/1/91 - 12/31/91
Abbreviations: NA = Not Applicable ND = Not Determined NR = Not Regulated