Material Safety Data Sheet

SECTION 1: PRODUCT NAME AND COMPANY INFORMATION

Product Name: LTI-SHC-125B HARD COATING
Product Number: 8337400
Issue Date: May 25, 2011
Supersedes Date: February 7, 2007

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

(714) 690-6470

Distributed By:
Coburn Technologies
55 Gerber Road
South Windsor, CT 06074

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. LTI-SHC-125B is flammable with a flash point of 73deg. F. Will burn once ignited 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)

Chemical Name	Weight (%)	CAS#
Propylene glycol methyl ether acetate	25-30	00108-65-6
Methyl isobutyl ketone	40-45	00108-10-1
Acrylate Ester	N/A	Proprietary
N-Vinylpyrollidone	N/A	000088-12-0
Aromatic derivative	N/A	Proprietary

Contains some proprietary non-hazardous compounds that are not listed.

SECTION 3: Hazards Identification

Potential Health Effects

INHALATION: Harmful if inhaled. May affect 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. Contains n-Vinyl-2-pyrrolidone, which is suspected of causing cancer in certain animals. 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-SHC-125B.

Fire and Explosion

LTI-SHC-125B is flammable liquid with a flash point of 113 degrees F SETA close cup. Both the LEL and UEL have not been determined. Products of combustion include carbon dioxide and carbon monoxide, 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 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-SHC-125B 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 attention 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 container exposed to the heat of 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 liter). When liquid is fully absorbed, sweep into 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-SHC-125B should be stored away form potential ignition sources. Keep away from heat, sparks and flame. Vapors may ignite explosively. Vapors may spread over long distances. 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 by 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. Due to the potential harmful characteristics of DHC-125, care need 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 glassed and/or face shields should be worn whenever the potential exists that LTI-SHC-125B could contact 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-SHC-125B and prior to smoking, eating, or consuming tobacco items like chewing tobacco or applying cosmetics.

Chemical Protective Equipment

Butyl Rubber	Viton	Chlorinated Polyethylene	Nitrile	Urethane	Vinyl	Natural Rubber	Neoprene
I	I	I	I	I	I	I	I

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

Exposure Guidelines

Chemical Name	TLV	STEL	Source Of Other Limits
Propylene glycol methyl ether acetate	NONE	150 PPM	100 PPM
n-vinyl-2-pyrrolidone	NONE		.1 PPM
Acrylate Ester	NONE		
Methyl iobutyl ketone	NONE	75 PPM	
Aromatic Derivative	NONE		

SECTION 9: Physical and Chemical Properties

Boiling Point – Degrees F:	>200
Specific Gravity:	. 96
Pounds/: Gallon:	8.0
Percent Volatiles	60
Odor:	alcohol
Color:	Pale yellow
Solubility (water):	<10%
Viscosity:	thin
Physical State:	liquid
Dry Time:	ND
Melting Point – Degrees F	ND
Vapor Pressure	5.5

SECTION 10: Stability and Reactivity

LTI-SHC-125B is stable and will not polymerize or react under normal conditions. Storage at temperature above 100 deg. F or excessive exposure of UV to large masses of the product may cause the product to polymerize rapidly resulting in significant heat generation, spattering hot material or bursting closed drums. Avoid storing near or combining with strong caustics, temperature above 100 deg. F., strong oxidizer, UV light source, direct flame, loss of inhibitor strong oxidizers, corrosives, surface active material, and metallic compounds. Reaction by-products may include carbon dioxide monoxide and acrid fumes and volatile organics 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 affect 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. 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 a mutagenic or teratogenic by California.

Organs Targeted by Exposure:
The kidney, liver and blood may be targeted by components of LTI-SHC-125B.

SECTION 12: Ecological Information

Not Evaluated

SECTION 13: Disposal Considerations

Based on our understanding of the federal hazardous waste regulations, LTI-SHC-125B is a federally defined characteristic waste due to flammability. LTI-SHC-125B 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 GUIDE BOOK: 26

IATA Restrictions

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

SECTION 15: Regulatory Information

SARA Title III		304	313	EHS	Wt %*
000088-12-0	n-Vinyl-2-Pyrrolidone	NO	NO	NO	
000107-98-2	Propylene glycol monomethyl ether	NO	NO	NO	
000108-10-1	Methyl Isobutyl Ketone	NO	NO	NO	
	Acrylate Ester	NO	NO	NO	
	Aromatic Derivative	NO	NO	NO	

CNK-*Some components Not Known*

*SARA Regulated Components Only

TSCA

All components comply with TSCA Inventory requirements.

OSHA

LTI-SCH-125 is considered a hazardous chemical according to our interpretation of the OHSA Hazard Communication Standard.

Hazard Ratings

HMIS
HEALTH: 3
FIRE 2
REACTIVITY: 0

Personal Protective Index

Because workplace conditions environments and means of Application differ, we cannot Make specific recommendations.

NFPA
HEALTH: 2
FIRE: 2
REACTIVITY: 0

SAX Health Rating
3

SECTION 16: Other Information

Information Contact:

Lens Technology I, LLC
General Manager
14256 Firestone Blvd
La Mirada, CA 90638-5524
(714) 690-6470 (for questions and emergencies)
(800) 535-5053----24 hour EMERGENCY / TRANSPORTATION NUMBER

MSDS Review Committee Approval:

Prepared by: 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

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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
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