



## Material Safety Data Sheet

### SECTION 1: PRODUCT NAME AND COMPANY INFORMATION

**Product Name:** LTI-ARMOUR-500BB UNIVERSAL COATING

**Product Number:** 285941

**Issue Date:** March 29, 2012

**Supersedes Date:**

February 9, 2009

**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 with an alcohol odor. LTI-ARMOUR-500 is combustible and in a fire may release hazardous combustion by-products. Over exposure of this product or its components may cause severe health effects that are reversible upon removal from exposure and/or may cause permanent health problem as a results of repeated over exposure.

### SECTION 2: COMPOSITION (Hazardous Components First)

**Chemical Name**

Acrylated Monomers/Oligomer Blend  
Photoinitiator

**Synonyms**

N/A  
N/A

**CAS#**

Proprietary

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

### SECTION 3: Hazards Identification

#### Potential Health Effects

**INHALATION:** Vapors can be irritating to the respiratory passages. **INGESTION:** Harmful if swallowed. **SKIN CONTACT:** Causes skin irritation. **EYE CONTACT:** Causes Eye Irritation.

#### Fire and Explosion

LTI-ARMOUR-500 is a combustible liquid with a flash point more than 200 deg. F SETA closed cup. When a fire situation occurs, by-products of combustion include carbon dioxide, carbon monoxide, oxides of sulfur, nitrogen oxides, acrid fumes and organic fractions. The exact composition of the combustion by-product will depend on the conditions of combustion. In a fire, closed containers (100 ml) may melt or rupture when exposed to heat. Toxic and /or irritating vapors may be released during a spill. Combustion by-products may be hazardous.  
(See Reactivity Section)

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## SECTION 4: First Aid

### 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 free from contaminant before reuse.

### 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:

Have victim rinse mouth thoroughly with water. Have victim drink 250 – 300 ml ( 8-10 oz) of water to dilute the material in the stomach. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Obtain medical attention immediately

## SECTION 5: Fire Fighting Measures:

Use dry powder, CO<sub>2</sub>, 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 and dispose absorbant material according to federal, state, and local regulations.

### LARGE SPILLS

Isolate area and evacuate all non-essential personnel. 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

Keep away from extreme heat. Close container each use. Avoid prolonged or repeated contact with skin. Do not get in eyes, on skin or on clothing. General room ventilation should be sufficient. Keep from freezing.

## SECTION 8: Exposure Controls/Personal Protection

### Engineering:

Appropriate exhaust ventilation

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Showers, Eyewash stations  
Use only in well ventilated places

## Respiratory Protection:

Use appropriate NIOSH respiratory protection if over exposure is likely.

## Protective Gloves:

Rubber, Neoprene

## Eye Protection:

Monogoggles  
Face shield

## Other Equipment:

Rubber Apron  
Wear eye protection and protective clothing  
Long sleeves

## Ventilation:

Use only in well ventilated areas  
Mechanical ventilation

## 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>
I	I	I	A	I	I	I	A

A = Recommended

B = Minor to Moderate Effect

C = Conditional

X = Not Recommended

I = Insufficient Data to Rate

## Exposure Guidelines

### AIHA WEEL-TWA

<u>Chemical Name</u>	<u>ACGIH TLV</u>	<u>STEL</u>	
Acrylated Monomers	N/A		1 mg/m3 (8 hr., skin)

Caution: Avoid repeated or proplonged breathing of spray mist.

## SECTION 9: Physical and Chemical Properties

Boiling Point - Degrees F:	>300F
Specific Gravity:	1.14
Pounds/:Gallon:	9.48
Percent Volatile:	Negligible
Odor:	alcohol
Color:	Pale yellow
Solubility (water):	None
Viscosity:	thin
Physical State:	liquid
Dry Time:	NA
Melting Point - degrees F	NA

Vapor Pressure:

NA

**SECTION 10: Stability and Reactivity**

Normally the product is stable if stored under 85 deg. F. However, avoid heat, direct light, ultraviolet radiation, inert gas blanketing, strong oxidizers, corrosives, oxygen scavengers, metallic compounds, acid and bases. When subjected to one of these conditions and materials can cause a spontaneous polymerization. Reaction by-products may include carbon dioxide and carbon monoxide, oxides of sulfur, acid 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:**

Vapors can be irritating to the respiratory passages.

**Eye Irritation:**

Causes Eye Irritation.

**Skin Irritation:**

Causes Skin Irritation.

**Chronic Effects:**

No adverse chronic health effects are expected from anticipated conditions of normal use of the product.

**SECTION 12: Ecological Information:**

Not Evaluated

**SECTION 13: Disposal Considerations:**

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. Incinerate or use biological treatment in accordance with federal, state, and local regulations.

**SECTION 14: Transport Information:****HM 181 Required Information**

DOT SHIPPING NAME:	Not Applicable
EXPORT SHIPPING NAME:	Not Applicable
LABEL	None
RQ	None

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## 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>
***CNK***	Acrylated Monomer	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.

### CERCLA

Under EPA-CERCLA releases to air, land or water which exceed the reportable quantity must be reported to the National Response Center(800-424-8802). The reportable quantity for this product is >10,000 pounds.

### Hazard Ratings

	<u>HMIS</u>	<u>Personal Protective Index</u>
HEALTH	3	Because workplace conditions, environments and means of application differ, we cannot make specific recommendations
FIRE	1	
REACTIVITY	2	
PERS. PROT. INDEX	X	

## 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

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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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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