



## SAFETY DATA SHEET

Print date: 03/27/2009

Revision date: 08/29/2011

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code: EWHL4  
Product name: #3 LENS COATING

#### Use of the Substance/Preparation

Recommended use: Lens coating

#### Supplier:

QMI, Inc.  
3606 Craftsman Blvd.  
Lakeland, FL 33083 USA

Emergency telephone number: CHEMTREC: 1-800-424-9300 QMI: (800) 255-8138

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	EC No.	Weight %	Classification
N-METHYL-2-PYRROLIDONE	872-50-4	212-828-1	10-20	Xi;R36/38
Triethylamine	121-44-8	204-469-4	1-10	C;R35 F;R11 Xn;R20/21/22

### 3. HAZARDS IDENTIFICATION

#### Indication of danger:

Xi - Irritant.

#### Most important hazards

R36/38 - Irritating to eyes and skin.

### 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**Inhalation:** If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing stops, get medical attention immediately.

**Skin contact:** Immediately flush skin with plenty of running water for at least 15 minutes. Remove contaminated clothing and footwear. Wash before reuse.

<b>Eye contact:</b>	Flush immediately with large amount of water for at least 15 minutes. Consult a physician.
<b>Ingestion:</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

## 5. FIRE-FIGHTING MEASURES

### **Suitable extinguishing media:**

Use water spray (flood with water), dry chemical, CO2 or "alcohol" foam

### **Extinguishing media which must not be used**

#### **for safety reasons:**

No information available

### **Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:**

No information available.

### **Specific hazards:**

No information available.

### **Special firefighting procedures:**

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment

**Environmental precautions:** Do not allow material to contaminate ground water system. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Absorb the large spill with plenty of absorbent material. Use plenty of water on small spills.

## 7. HANDLING AND STORAGE

### **Handling:**

#### **Technical measures/precautions:**

Use only in area provided with appropriate exhaust ventilation

#### **Safe handling advice:**

Protect against physical damage, and keep tightly closed.

### **Storage:**

#### **Technical measures/storage conditions:**

Store between 40 and 120 °F

#### **Incompatible products:**

No special restrictions on storage with other products

### **Specific use(s)**

No information available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure limit(s)**

*N-METHYL-2-PYRROLIDONE*

EU - Indicative Occupational Exposure Limits-8 hr  
Germany TRGS 900 MAK  
Germany (DFG) - MAK  
France INRS (VLE)

No data available  
No data available  
No data available  
No data available

*Triethylamine*

EU - Indicative Occupational Exposure Limits-8 hr  
Germany TRGS 900 MAK  
Germany (DFG) - MAK  
France INRS (VLE)

2 ppm TWA; 8.4 mg/m<sup>3</sup> TWA  
1.9 ppm TWA; 8 mg/m<sup>3</sup> TWA  
1 ppm MAK; 4.2 mg/m<sup>3</sup> MAK  
10 ppm VLE; 40 mg/m<sup>3</sup> VLE

**Environmental exposure controls**

<b>Engineering measures:</b>	Provide sufficient mechanical ventilation
<b>Respiratory protection:</b>	An approved hydrocarbon canister for organic vapor should be worn if exposure will be prolonged
<b>Hand protection:</b>	Wear chemical resistant gloves
<b>Eye protection:</b>	Wear Safety glasses
<b>Skin and body protection:</b>	Rubber apron Use the prescribed PPE to protect skin and body

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

**General Information**

<b>Physical state:</b>	Liquid
<b>Odor:</b>	Amine like Odor

**Important Health Safety and Environmental Information**

<b>pH:</b>	7.0 - 9.0
<b>Boiling point/range (°C):</b>	> 100
<b>Flash point (°C):</b>	Not applicable
<b>Flammability (solid, gas)</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Vapor pressure:</b>	No data available
<b>Density:</b>	No data available
<b>Solubility:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Viscosity:</b>	No data available
<b>Vapor density:</b>	
<b>Evaporation rate:</b>	Slower than ether

**Other information**

<b>Color:</b>	Opaque Yellow Liquid
<b>Melting point/range:</b>	Not determined
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.06

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	No data available
<b>Materials to avoid:</b>	Avoid contact with acids and strong oxidizers

**Hazardous decomposition products:**

Burning may produce oxides of carbon and traces of hydrocarbons.

**Polymerization:**

Will not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

**LC50/inhalation/8h/rat =**

No data available.

**LD50/dermal/rabbit =**

No data available.

**LD50/oral/rat =**

No data available.

### Local effects

**Skin irritation:**

Not determined for this mixture. Not expected to cause skin irritation based on concentrations and percentages of individual components.

**Eye irritation:**

Not determined for this mixture. Toxicity is not expected based on concentrations and percentages of individual components.

**Inhalation:**

Not determined. Toxicity is not expected based on concentrations and percentages of individual components.

**Ingestion:**

Not determined. Toxicity is not expected based on concentrations and percentages of individual components..

**Sensitization:**

Improper storage and handling may lead to the formation of a possible skin sensitizer.

**Chronic toxicity:**

No data available

### Specific effects

**Carcinogenic effects:**

Not determined for this mixture. Carcinogenic effects are not expected based on concentrations and percentages of individual components.

**Mutagenic effects:**

No information is available.

**Reproductive toxicity:**

This product does not contain known reproductive or developmental toxins.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

**Aquatic toxicity:**

The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

**Mobility:**

The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

**Persistence and degradability**

The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

**Bioaccumulation:**

The environmental characteristics of this mixture have not been fully evaluated. Releases to the environments should be avoided.

**Other information**

The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

### 13. DISPOSAL CONSIDERATIONS

<b>Waste from residues / unused products:</b>	Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.
<b>Contaminated packaging:</b>	Can be offered for recycling, re-conditioning or puncture.
<b>Methods for cleaning up:</b>	Absorb the large spill with plenty of absorbent material. Use plenty of water on small spills.
<b>EWC waste disposal no:</b>	Not applicable

### 14. TRANSPORT INFORMATION

**UN-No:** Not applicable.

#### ADR/RID

<b>Proper shipping name:</b>	Not regulated.
<b>Class:</b>	None
<b>Packing group:</b>	None
<b>Classification code:</b>	No data is available on the product itself.
<b>CEPIC Tremcard No:</b>	No data is available on the product itself.

#### IMDG/IMO

<b>Proper shipping name:</b>	Not regulated.
<b>Class:</b>	None
<b>Packing group:</b>	None
<b>Marine pollutant:</b>	No data is available on the product itself.
<b>EMS:</b>	No data is available on the product itself.
<b>MFAG:</b>	No data is available on the product itself.
<b>Maximum quantity:</b>	None

#### ICAO/IATA

<b>Proper shipping name:</b>	Not regulated.
<b>Class:</b>	None
<b>Subsidiary risk:</b>	Not applicable
<b>Packing group:</b>	None
<b>Maximum quantity:</b>	None

### 15. REGULATORY INFORMATION

#### In accordance with local and national regulations

##### Indication of danger:

Xi - Irritant.

##### R-phrases(s)

R36/38 - Irritating to eyes and skin.

##### S-phrases(s)

S2 - Keep out of reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S18 - Handle and open container with care.

S20 - When using do not eat or drink.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - After contact with skin, wash immediately with plenty of water.

S41 - In case of fire and/or explosion do not breathe fumes.

### International Inventories

Triethylamine - 121-44-8

**Philippines PICCS:**

**Inventory - Japan - Existing and New Ch**

**Canada DSL Inventory List -**

**Inventory - United States TSCA - Sect. 8(b)**

**Australia (AICS):**

Present

2-141

C6H15N

Present

Present

## **16. OTHER INFORMATION**

**Prepared by:**

Health & Safety Department

**Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, QMI, Inc. does not assume any liability whatsoever for the accuracy or completeness of this information. Final determination of suitability of any material is sole responsibility of the user. All materials may present unknown health hazard & should be used with caution. Any product use, which is not in conformance with this data sheet, or which involves using the product in combination with any other processes, is the sole responsibility of the user.

**End of Safety Data Sheet**