

**From:** MALONE, JOHN D, ATTSI  
**Sent:** Friday, January 04, 2008 4:14 PM  
**To:** PARDUE, LYNN O, ATTSI  
**Cc:** COLLIPI, RALPH V, JR., ATTSI; DETTERBECK, GREGORY D (GREG), ATTCORP; MILAM, VICTOR L (VIC), ATTCORP  
**Subject:** OSHA Complaint regarding Vertellus Encapsulant  
**Importance:** High

Lynn,

I just received an OSHA complaint from a Legacy T location at 360 Gees Mill Business parkway in Conyers Georgia alleging that an ingredient in the Vertellus encapsulant they use exposes the technicians to methylene diphenyl diisocyanate (MDI).

I have reviewed the procurement systems and both Legacy B and Legacy S use an encapsulant that is free of isocyanates. I have attached a tech sheet and MSDS of the encapsulant used in Leg B and S and would like Legacy T to consider moving to a isocyanate free encapsulant. I would ideally like to be able to confirm to OSHA by 1/12/08 that we have eliminated the Vertellus product from our procurement system and replaced it with an isocyanate free encapsulant.

<<8882%20HIGHGEL%20Product%20Bulletin.pdf>> <<3M Re-enetrable Encapsulant.pdf>>

*John D. Malone, CSP, CIH*

*AT&T Services, Inc.*

*Senior Manager- Industrial Hygiene*

*12851 Manchester Road, 1-W-10*

*Des Peres, MO 63131*

*office 314-505-1461*

*mobile 314-606-5313*

**U.S. Department of Labor**

Occupational Safety and Health Administration  
Atlanta East Area Office  
LaVista Perimeter Office Park  
Building 7, Suite 110  
2183 Northlake Parkway  
Tucker, Georgia 30084  
770-493-6644



01/04/08

AT & T  
360 Gees Mill Business Pkwy  
Conyers, GA 30013

Re: AT & T  
Complaint No. 206096182

Dear Sir:

On 01/04/2008, the Occupational Safety and Health Administration (OSHA) received a notice of (safety and/or health) hazards at your worksite at:

360 Gees Mill Business Pkwy  
Conyers, GA 30013

We notified you, by telephone, of these alleged hazards on 01/04/08. The specific nature of the alleged hazards is as follows:

Employees are exposed to methylene diphenyl diisocyanate (MDI) while installing and repairing fiber optics in confined spaces.

We have not determined whether the hazards, as alleged, exist at your workplace; and we do not intend to conduct an inspection at this time. However, since allegations of violations and/or hazards have been made, we request that you immediately investigate the alleged conditions and make any necessary corrections or modifications. Please advise me in writing, no later than 01/12/08 of the results of your investigation. You must provide supporting documentation of your findings, including any applicable measurements or monitoring results, and photographs/video which you believe would be helpful, as well as a description of any corrective action you have taken or are in the process of taking, including documentation of the corrected condition.

This letter is not a citation or a notification of proposed penalty which, according to the OSH Act, may be issued only after an inspection or investigation of the workplace. It is our goal to assure that hazards are promptly identified and eliminated. Please take immediate corrective action where needed. We encourage employee participation in investigating and responding to any alleged hazard. **If we do not receive a response from you by 01/12/08 indicating that appropriate action has been taken or that no hazard exists and why, an OSHA inspection will be conducted.** An inspection may include a review of the following: injury and illness records, hazard communication, personal protective equipment, emergency action or response, bloodborne pathogens, confined space entry, lockout and related safety and health issues. Please note, however, that OSHA selects for inspection some cases where we have received letters in which employees have indicated satisfactory corrective action. This is to ensure that employers have actually taken the action stated in their letters.

The State of Georgia offers OSHA consultation services, without charge, to assist in resolving all occupational safety and health issues. The variety of services available or the scheduling of those services may be limited by the consultation project's requirement to give priority to small businesses in high hazard industries and by its backlog. However, you may be able to obtain similar services from your insurance carrier or private consultant in a more timely fashion. To discuss or request the services, call or write your Georgia consultation project at the following address:

Safety and Health Consultation Program  
430 10th Street, NW  
Atlanta, Georgia 30332-0837  
(404)407-7431

You are requested to post a copy of this letter where it will be readily accessible for review by all of your employees and return a copy of the signed Certificate of Posting (Attachment A) including your Federal Employee Identification Number to this office. Also, you are requested to provide a copy of this letter and your response to it to a representative of any recognized employee union or safety committee if these are at your facility. Failure to do this may result in an on-site inspection. The complainant has been furnished a copy of this letter and will be advised of your response. Section 11(c) of the OSH Act provides protection for employees against discrimination because of their involvement in protected safety and health related activity.

If you have any questions concerning this matter, please contact the Area Office at the address in the letterhead. Your personal support and interest in the safety and health of your employees is appreciated.

Sincerely,

*Keith H. ...*  
*Bo*

Gei-Thae Breezley  
Area Director

### CERTIFICATE OF POSTING OSHA NOTIFICATION OF ALLEGED HAZARD(S)

Complaint Nr: 206096182

Employer Name: AT & T

Date of Posting: 1-4-08

Date Copy Given to  
an Employee Representative: 1-7-08

On behalf of the employer, I certify that a copy of the complaint letter received from the Occupational Safety and Health Administration (OSHA) has been posted in a conspicuous place, where all affected employees will have notice, or near such location where the violation occurred, and such notice has been given to each authorized representative of affective employees, if any. This notice was or will be posted for a minimum of ten (10) working days or until any hazardous conditions found are corrected.

Victor Milan  
Signature

Supervisor  
Title



# Re-enterable Encapsulant

## 8882 High Gel



### **The best all-around buried splice protection.**

Consider the time and costs of splicing a buried cable. Then consider the time and costs of going back to repair the splice because your encapsulating compound couldn't weather the elements.

With these considerations in mind, 3M developed High Gel – a completely re-enterable encapsulant designed for superior performance at a low cost.

Using an advanced compound technology, High Gel yields a higher level of adhesion than encapsulants costing much more. This is because High Gel is designed to absorb cable-filling materials, yet remain easily and completely re-enterable.

Even when splicing filled cable, little or no cable cleaning is required prior to using High Gel. Application is quick and easy, since High Gel accepts forced-compound techniques as well as gravity-fill.

High Gel also provides better penetration of splice bundles at low temperatures due to its lower viscosity and longer gel time. With its increased hydrolytic stability, High Gel stays firm at high temperatures.

You get greater moisture protection and overall performance that's superior – yet High Gel costs no more than most encapsulants of lesser quality.

Many encapsulants on the market today contain isocyanate compounds, which can cause allergic reactions in certain persons. High Gel contains no isocyanates, so the risk of an allergic reaction is greatly reduced.

### **Built-in quality**

When you use High Gel for your splicing jobs, you get more than the performance of a superior encapsulant. You get the assurance of quality that's built into every 3M product.

As a leader in the telecommunications industry, 3M has built a reputation of reliability at an affordable price. And with High Gel, you can count on getting the job done right-the first time.

# 3M™ 8882 High Gel Re-enterable Encapsulant

Features	Advantages	Benefits
Advanced compound technology	Does not contain isocyanates	Reduces the risk of allergic reaction
High adhesion	Greater moisture protection; no cable cleaning required	Saves time, repair costs and money
High performance	Easy to re-enter; prevents ingress of moisture	Saves man-hours and money
Unipak Packaging	Eliminates worker exposure to vapors during mixing	Reduces exposure to chemicals
	No unreacted material after mixing	Eliminates the need for special disposal

## Ordering Information

Size	Packaging
500C (521 ml) Unipak	10 kits per case
750C (781 ml) Foil Unipak	4 kits per case
1900C (1979 ml) Foil Unipak	1 kit per case
5000C (5203 ml) Pouch in Pail	2 kits per case
8000C (8333 ml) Pouch in Pail	1 kit per case
Size A (90 ml) Unipak	10 kits per case
Size C (385 ml) Unipak	10 kits per case
Size D (659 ml) Unipak	10 kits per case
Size E (292 ml) Unipak	10 kits per case
750F (824 ml) Foil Unipak	4 kits per case
1500F (1648 ml) Foil Unipak	2 kits per case
3000F (3297 ml) Foil Unipak	1 kit per case
6000 (6593 ml) Pouch in Pail	1 kit per case

To order, specify the size of packages and number of cases.

### Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

### Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**



### Telecommunications

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Austin, TX 78726-9000  
800/426.8688  
FAX.800/626.0329  
www.3M.com/telecom



Recycled paper  
40% Pre-consumer waste paper  
10% Post-consumer waste paper

Litho in USA.

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**PRODUCT NAME:** 8980-8882/High Gel Rigid Body Closure Kits  
**MANUFACTURER:** 3M  
**DIVISION:** Communication Markets Division

**ADDRESS:** 3M Center  
St. Paul, MN 55144-1000

**EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)**

**Issue Date:** 03/21/2007  
**Supersedes Date:** 06/16/2002

**Document Group:** 18-0280-0

### ID Number(s):

80-6111-4775-4, 80-6111-4776-2, 80-6111-4777-0, 80-6111-4778-8, 80-6111-4779-6, 80-6111-4780-4

**This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:**

17-9246-4, 17-9245-6

### Reason for Reissue:

Add kit components 17-9245-6 (Part B) and 17-9246-4 (Part A). Delete kit component 09-4103-9 (Part A & Part B).

### Revision Changes:

Copyright was modified.

Kit: Component document group number(s) was modified.

Kit: Division name was modified.

Kit initial issue message was modified.

Reason for reissue heading was added.

KIT1\_COM\_RSN\_REISUE was added.

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particular purpose and suitable for user's method of use or application.

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 8882 High Gel, Part B  
**MANUFACTURER:** 3M  
**DIVISION:** Communication Markets Division

**ADDRESS:** 3M Center  
 St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 10/28/2004  
**Supersedes Date:** 09/22/2004

**Document Group:** 17-9245-6

#### Product Use:

Intended Use: Re-enterable Encapsulation  
 Specific Use: Re-enterable Encapsulation

### SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Hydrotreated heavy naphthenic petroleum distillates	64742-52-5	55 - 75
1,3-Butadiene, homopolymer, hydroxy-terminated	69102-90-5	20 - 30
Methyldidecylamine	7396-58-9	5 - 10

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Odor, Color, Grade:** Clear, light amber, oily liquid, mild odor

**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:**

#### 3.2 POTENTIAL HEALTH EFFECTS

##### Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

**Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

**Inhalation:**

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

**Autoignition temperature**

*No Data Available*

**Flash Point**

$\geq 230$  °F [*Test Method: Pensky-Martens Closed Cup*]

**Flammable Limits - LEL**

*No Data Available*

**Flammable Limits - UEL**

*No Data Available*

### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Not applicable.

**Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with detergent and water. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

For industrial or professional use only. Avoid eye contact. Avoid skin contact. Avoid breathing of vapors, mists or spray. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid contact with oxidizing agents.

### 7.2 STORAGE

Store away from oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Use in a well-ventilated area.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Indirect Vented Goggles.

#### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Nitrile Rubber.

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges. Consult the current 3M

Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

### 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
Hydrotreated heavy naphthenic petroleum distillates	CMRG	TWA	5 mg/m <sup>3</sup>	
Hydrotreated heavy naphthenic petroleum distillates	CMRG	STEL	10 mg/m <sup>3</sup>	

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Odor, Color, Grade:</b>	Clear, light amber, oily liquid, mild odor
<b>General Physical Form:</b>	Liquid
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Flash Point</b>	>=230 °F [ <i>Test Method: Pensky-Martens Closed Cup</i> ]
<b>Flammable Limits - LEL</b>	<i>No Data Available</i>
<b>Flammable Limits - UEL</b>	<i>No Data Available</i>
<b>Boiling point</b>	<i>No Data Available</i>
<b>Density</b>	0.9 g/ml
<b>Vapor Density</b>	<i>No Data Available</i>
<b>Vapor Pressure</b>	5 mmHg [@ 68 °F]
<b>Specific Gravity</b>	0.9
<b>pH</b>	<i>Not Applicable</i>
<b>Melting point</b>	<i>Not Applicable</i>
<b>Solubility in Water</b>	Nil

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** Strong oxidizing agents

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

**Substance**

Hydrocarbons  
Carbon monoxide  
Carbon dioxide

**Condition**

During Combustion  
During Combustion  
During Combustion

**SECTION 11: TOXICOLOGICAL INFORMATION**

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

**SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION**

Not determined.

**CHEMICAL FATE INFORMATION**

Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose of completely cured (or polymerized) material in a facility permitted to accept chemical wastes. Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

**EPA Hazardous Waste Number (RCRA):** Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

**SECTION 14: TRANSPORT INFORMATION**

**ID Number(s):**

LH-G100-0153-5, LH-G100-0153-6, LH-G100-0153-7, LH-G100-0153-8, LH-G100-0153-9, LH-G100-0154-0, 80-6111-4650-9

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

**SECTION 15: REGULATORY INFORMATION**

**US FEDERAL REGULATIONS**

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

## STATE REGULATIONS

Contact 3M for more information.

## CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

## INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

### NFPA Hazard Classification

Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Reason for Reissue:** The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

### Revision Changes:

Section 8: Engineering controls information was modified.

Section 8: Prevention of swallowing information was modified.

Section 15: Inventories information was modified.

Section 1: Initial issue message was modified.

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within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 8882 High Gel, Part A  
**MANUFACTURER:** 3M  
**DIVISION:** Communication Markets Division

**ADDRESS:** 3M Center  
 St. Paul, MN 55144-1000

**EMERGENCY PHONE:** 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 03/21/2007  
**Supersedes Date:** 11/01/2004

**Document Group:** 17-9246-4

#### Product Use:

**Intended Use:** For professional use.  
**Specific Use:** Re-enterable Encapsulation.

### SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Copolymer	25655-35-0	24 - 28
Vegetable Oil	8001-22-7	64 - 67
Epoxidized Vegetable Oil	8013-07-8	6 - 8
Toluene	108-88-3	< 1
BHT	128-37-0	< 1

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Odor, Color, Grade:** Viscous, hazy to clear amber, mild hydrocarbon aroma

**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:** Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

**Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

**Inhalation:**

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

**Target Organ Effects:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**SECTION 4: FIRST AID MEASURES**

**4.1 FIRST AID PROCEDURES**

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**SECTION 5: FIRE FIGHTING MEASURES**

**5.1 FLAMMABLE PROPERTIES**

Autoignition temperature	No Data Available
Flash Point	>=300 °F [Test Method: Closed Cup]
Flammable Limits - LEL	No Data Available
Flammable Limits - UEL	No Data Available

**5.2 EXTINGUISHING MEDIA**

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

**5.3 PROTECTION OF FIRE FIGHTERS**

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Not applicable.

**Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

For industrial or professional use only. Contents may be under pressure, open carefully. Avoid eye contact. Avoid skin contact. Avoid breathing of vapors, mists or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment. Avoid contact with oxidizing agents.

### 7.2 STORAGE

Store away from acids. Keep container in well-ventilated area.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers. Use in a well-ventilated area.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Indirect Vented Goggles.

#### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with

your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Nitrile Rubber.

**8.2.3 Respiratory Protection**

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

**8.2.4 Prevention of Swallowing**

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

**8.3 EXPOSURE GUIDELINES**

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
BHT	ACGIH	TWA, inhalable fraction and vapor	2 mg/m3	Table A4
BHT	OSHA	TWA	10 mg/m3	Table Z-1A
Toluene	ACGIH	TWA	50 ppm	Skin Notation*; Table A4
Toluene	CMRG	STEL	75 ppm	Skin Notation*
Toluene	OSHA	TWA, Vacated	100 ppm	
Toluene	OSHA	STEL, Vacated	150 ppm	
Toluene	OSHA	TWA	200 ppm	Table Z-2
Toluene	OSHA	CEIL	300 ppm	Table Z-2
VEGETABLE OIL MISTS	OSHA	TWA, as mist	10 mg/m3	Table Z-1A
VEGETABLE OIL MISTS (EXCEPT CASTOR, CASHEW, OR SIMILAR IRRITANT OILS)	ACGIH	TWA, as mist	10 mg/m3	

\* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

**SOURCE OF EXPOSURE LIMIT DATA:**

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Guideline
- OSHA: Occupational Safety and Health Administration
- AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Odor, Color, Grade:</b>	Viscous, hazy to clear amber, mild hydrocarbon aroma
<b>General Physical Form:</b>	Liquid
<b>Autoignition temperature</b>	No Data Available
<b>Flash Point</b>	>=300 °F [Test Method: Closed Cup]
<b>Flammable Limits - LEL</b>	No Data Available
<b>Flammable Limits - UEL</b>	No Data Available
<b>Boiling point</b>	475 °F
<b>Density</b>	0.89 g/ml
<b>Vapor Density</b>	No Data Available
<b>Vapor Pressure</b>	<=27 psia [@ 131 °F]

Specific Gravity	0.89 [Ref Std: WATER=1]
pH	Not Applicable
Melting point	Not Applicable
Solubility In Water	No Data Available
Solubility in Water	Negligible

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** Strong acids

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of completely cured (or polymerized) material in a facility permitted to accept chemical wastes. Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

**EPA Hazardous Waste Number (RCRA):** Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

**ID Number(s):**

LH-G100-0152-6, LH-G100-0152-7, LH-G100-0152-8, LH-G100-0152-9, LH-G100-0153-0, LH-G100-0153-1, LH-G100-0154-1, LH-G100-0154-2, LH-G100-0154-3, LH-G100-0154-4, LH-G100-0154-5, LH-G100-0154-6, LH-G100-0154-7, 80-6111-4649-1

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

### STATE REGULATIONS

Contact 3M for more information.

### CALIFORNIA PROPOSITION 65

**Ingredient**

Toluene

**C.A.S. No.**

108-88-3

**Classification**

\*Developmental Toxin

\* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

### NFPA Hazard Classification

**Health:** 2 **Flammability:** 1 **Reactivity:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Reason for Reissue:** The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

### Revision Changes:

Section 1: Product use information was modified.

Copyright was modified.

Section 8: Exposure guidelines ingredient information was modified.

**DISCLAIMER:** The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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