



## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CC-2 Kit CABLE CLEANING PAD COMPONENT

**MANUFACTURER:** 3M

**DIVISION:** Electrical Markets Division

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

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

**Issue Date:** 05/06/11

**Supersedes Date:** 03/09/10

**Document Group:** 26-2852-7

#### Product Use:

Intended Use:

Electrical

Intended Use:

SOLVENT SOAKED PADS FOR CLEANING CABLE

### SECTION 2: INGREDIENTS

#### Ingredient

Isoparaffinic Hydrocarbon

Cotton pads

D-LIMONENE

C.A.S. No.  
64742-48-9

None

5989-27-5

% by Wt

50 - 70

25 - 40

5 - 20

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Liquid in bag or can with cloth pads

**Odor, Color, Grade:** citrus-like odor

**General Physical Form:** Liquid (Lint-free cloths soaked with liquid)

**Immediate health, physical, and environmental hazards:** Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause allergic skin reaction. May cause target organ effects.

#### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

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

**Skin Contact:**

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

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Inhalation:**

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

May be absorbed following inhalation and cause target organ effects.

**Ingestion:**

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

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

May be absorbed following ingestion and cause target organ effects.

**Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**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:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

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

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

**SECTION 5: FIRE FIGHTING MEASURES**

**5.1 FLAMMABLE PROPERTIES**

**Autoignition temperature**

*No Data Available*

**Flash Point**

165 °F [Test Method: Open Cup]

**Flash Point**

144 °F [Test Method: Closed Cup]

**Flammable Limits(LEL)**

*No Data Available*

**Flammable Limits(UEL)**

*No Data Available*

**OSHA Flammability Classification:**

Class IIIA Combustible Liquid

**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:** Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

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.

### 6.2. Environmental precautions

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.

### Clean-up methods

Observe precautions from other sections. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS.

**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

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. No smoking while handling this material. Avoid breathing of vapors, mists or spray. Avoid eye contact with vapors, mists, or spray. For industrial or professional use only. Do not breathe vapors. Avoid contact with oxidizing agents. Avoid skin contact. Avoid prolonged or repeated skin contact. 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 ingest. Wash hands after handling and before eating.

### 7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area. Keep container tightly closed. Store away from oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide local exhaust ventilation at transfer points. Use in an enclosed process area is recommended. If exhaust ventilation is not available, use appropriate respiratory protection. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

## **8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

### **8.2.1 Eye/Face Protection**

Avoid eye contact. Avoid eye contact with vapors, mists, or spray.  
The following eye protection(s) are recommended: Full Face Shield  
Indirect Vented Goggles

### **8.2.2 Skin Protection**

Avoid skin contact. Avoid prolonged or repeated 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: Fluoroelastomer

Nitrile Rubber  
Polyethylene

### **8.2.3 Respiratory Protection**

Avoid breathing of vapors, mists or spray. Do not breathe vapors.  
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  
. Select and use respiratory protection to prevent an inhalation exposure based on the results of an exposure assessment. Consult with your respirator manufacturer for selection of appropriate types of respirators.

### **8.2.4 Prevention of Swallowing**

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Not applicable. Wash hands after handling and before eating.

## **8.3 EXPOSURE GUIDELINES**

<b>Ingredient</b>	<b>Authority</b>	<b>Type</b>	<b>Limit</b>	<b>Additional Information</b>
D-LIMONENE	AHA	TWA	165.5 mg/m <sup>3</sup>	
Isoparaffinic Hydrocarbon	3M	TWA	100 ppm	
Isoparaffinic Hydrocarbon	CMRG	TWA	300 ppm	

### **SOURCE OF EXPOSURE LIMIT DATA:**

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

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Specific Physical Form:** Liquid in bag or can with cloth pads  
**Odor, Color, Grade:** citrus-like odor  
**General Physical Form:** Liquid (Lint-free cloths soaked with liquid)  
**Autoignition temperature** *No Data Available*

**Flash Point**  
**Flash Point**  
**Flammable Limits(LEL)**  
**Flammable Limits(UEL)**  
**Boiling Point**

165 °F [Test Method: Open Cup]  
144 °F [Test Method: Closed Cup]  
*No Data Available*  
*No Data Available*  
380 °F - 480 °F

**Vapor Density**

> 1 [Ref Std: AIR=1]

**Vapor Pressure**

< 1 mmHg [ @ 25 °C]

**Specific Gravity**

0.76

**pH**

7.0

**Melting point**

*No Data Available*

**Solubility in Water**

Nil

**Evaporation rate**

*No Data Available*

**Volatile Organic Compounds**

Approximately 740 g/l

**Kow - Oct/Water partition coef**

*No Data Available*

**VOC Less H2O & Exempt Solvents**

760 g/l

**Viscosity**

1.5 centipoise

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:**

**10.1 Conditions to avoid**  
Sparks and/or flames

**10.2 Materials to avoid**  
Strong oxidizing agents

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

**Hazardous Decomposition or By-Products**

<u>Substance</u>
Carbon monoxide
Carbon dioxide

<u>Condition</u>
Not Specified
Not Specified

## 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:** Incinerate in an industrial or commercial facility. 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

LH-A100-0663-9

For Transport Information, please visit <http://3M.com/TransportInfo> or call 1-800-364-3577 or 651-737-6501.

### SECTION 15: REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - Yes 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.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. The components of this product are listed on the Canadian Domestic Substances List.

Contact 3M for more information.

#### INTERNATIONAL REGULATIONS

Contact 3M for more information.

WHMIS: Hazardous

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: 2 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.

**HMIS Hazard Classification**

**Health: 2 Flammability: 2 Reactivity: 0 Protection: B**

Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

**Revision Changes:**

- Section 16: Disclaimer (second paragraph) was modified.
- Section 7: Handling information was modified.
- Section 8: Engineering controls information was modified.
- Section 8: Respiratory protection information was modified.
- Section 8: Prevention of swallowing information was modified.
- Section 8: Eye/face protection information was modified.
- Section 8: Skin protection - recommended gloves information was modified.
- Section 8: Respiratory protection - recommended respirators information was modified.
- Section 14: Transportation legal text was modified.
- Section 15: Inventories information was modified.
- Section 9: Vapor pressure value was modified.
- Section 9: Boiling point information was modified.
- Section 5: Flammable limits (UEL) information was modified.
- Section 5: Flammable limits (LEL) information was modified.
- Section 8: Respiratory protection - recommended respirators guide was modified.
- Section 9: Flammable limits (LEL) information was modified.
- Section 9: Flammable limits (UEL) information was modified.
- Section 10: Materials to avoid physical property was modified.
- Section 10: Conditions to avoid physical property was modified.
- Section 6: 6.2. Environmental precautions heading was added.
- Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added.
- Section 16: Web address was added.
- Section 1: Address was added.
- Copyright was added.
- Company logo was added.
- Section 6: Clean-up methods heading was added.
- Telephone header was added.
- Company Telephone was added.
- Section 1: Emergency phone information was added.
- Section 1: Emergency phone information was deleted.
- Company Logo was deleted.
- Copyright was deleted.
- Section 6: Release measures heading was deleted.
- Section 1: Address line 1 was deleted.
- Section 1: Address line 2 was deleted.

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