



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 05/13/15  | <b>Supersedes Date:</b> | 02/06/15 |

### Product identifier

3M™ Cold Shrink QT-III Termination Kit 7673-S-INV-10 Series

### ID Number(s):

80-6116-1143-7, 80-6116-1144-5, 80-6116-1145-2, 80-6116-1422-5

### Recommended use

Electrical

### Supplier's details

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Electrical Markets Division             |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

### Emergency telephone number

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

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

06-4861-8, 11-4628-1

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3M USA SDSs are available at [www.3M.com](http://www.3M.com)



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**Document Group:** 11-4628-1  
**Issue Date:** 10/07/16

**Version Number:** 34.03  
**Supersedes Date:** 04/24/15

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Cable Preparation Kit CC-3 (Bag) and/or CC-2 (Can)

#### Product Identification Numbers

78-8018-9838-4, 78-8141-5782-8, 80-6105-9300-8

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Electrical, Solvent soaked pads for cleaning cable.

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Electrical Markets Division  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Flammable Liquid: Category 4.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

##### Pictograms

**Hazard Statements**

Combustible liquid.

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

**Precautionary Statements****Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

**Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

**2.3. Hazards not otherwise classified**

None.

## SECTION 3: Composition/information on ingredients

| Ingredient                | C.A.S. No. | % by Wt |
|---------------------------|------------|---------|
| Isoparaffinic Hydrocarbon | 64742-48-9 | 50 - 70 |
| Cotton pads               | None       | 25 - 40 |
| D-LIMONENE                | 5989-27-5  | 5 - 20  |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye Contact:**

No need for first aid is anticipated.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**5.2. Special hazards arising from the substance or mixture**

Closed containers exposed to heat from fire may build pressure and explode.

**5.3. Special protective actions for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. 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 SDS. Seal the container. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid

breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient                | C.A.S. No. | Agency                  | Limit type  | Additional Comments |
|---------------------------|------------|-------------------------|-------------|---------------------|
| Isoparaffinic Hydrocarbon | 64742-48-9 | Manufacturer determined | TWA:100 ppm |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Under normal use conditions, eye exposure is not expected to be significant enough to require eye protection.

##### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Nitrile

Apron - polymer laminate

##### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator

type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                |                                             |
|------------------------------------------------|---------------------------------------------|
| <b>General Physical Form:</b>                  | Solid (Lint-free cloths soaked with liquid) |
| <b>Specific Physical Form:</b>                 | Cloth pads soaked in liquid in can or bag   |
| <b>Odor, Color, Grade:</b>                     | citrus-like odor                            |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                    |
| <b>pH</b>                                      | 7                                           |
| <b>Melting point</b>                           | <i>No Data Available</i>                    |
| <b>Boiling Point</b>                           | 380 °F - 480 °F                             |
| <b>Flash Point</b>                             | 144 °F [ <i>Test Method:</i> Closed Cup]    |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                    |
| <b>Flammability (solid, gas)</b>               | Not Classified                              |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>                    |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>                    |
| <b>Vapor Pressure</b>                          | < 1 mmHg [ <i>@ 25 °C</i> ]                 |
| <b>Vapor Density</b>                           | > 1 [ <i>Ref Std:</i> AIR=1]                |
| <b>Specific Gravity</b>                        | 0.76 [ <i>Ref Std:</i> WATER=1]             |
| <b>Solubility in Water</b>                     | Nil                                         |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                    |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                    |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>                    |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                    |
| <b>Viscosity</b>                               | 1.5 centipoise                              |
| <b>Molecular weight</b>                        | <i>No Data Available</i>                    |
| <b>Volatile Organic Compounds</b>              | Approximately 740 g/l                       |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | 760 g/l                                     |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Sparks and/or flames

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| Carbon monoxide  | Not Specified    |

Carbon dioxide

Not Specified

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Inhalation:

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

May cause additional health effects (see below).

##### Skin Contact:

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

##### Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

##### Ingestion:

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

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

#### Additional Health Effects:

##### Single exposure may cause 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.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

##### Acute Toxicity

| Name                      | Route                      | Species | Value                                           |
|---------------------------|----------------------------|---------|-------------------------------------------------|
| Overall product           | Ingestion                  |         | No data available; calculated ATE > 5,000 mg/kg |
| Isoparaffinic Hydrocarbon | Inhalation-Vapor           |         | LC50 estimated to be 20 - 50 mg/l               |
| Isoparaffinic Hydrocarbon | Dermal                     | Rabbit  | LD50 > 3,000 mg/kg                              |
| Isoparaffinic Hydrocarbon | Ingestion                  | Rat     | LD50 > 5,000 mg/kg                              |
| D-LIMONENE                | Inhalation-Vapor (4 hours) | Mouse   | LC50 > 3.14 mg/l                                |
| D-LIMONENE                | Dermal                     | Rabbit  | LD50 > 5,000 mg/kg                              |
| D-LIMONENE                | Ingestion                  | Rat     | LD50 4,400 mg/kg                                |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                      | Species | Value         |
|---------------------------|---------|---------------|
| Isoparaffinic Hydrocarbon | Rabbit  | Irritant      |
| D-LIMONENE                | Rabbit  | Mild irritant |

**Serious Eye Damage/Irritation**

| Name                      | Species | Value                     |
|---------------------------|---------|---------------------------|
| Isoparaffinic Hydrocarbon | Rabbit  | No significant irritation |
| D-LIMONENE                | Rabbit  | Mild irritant             |

**Skin Sensitization**

| Name                      | Species    | Value           |
|---------------------------|------------|-----------------|
| Isoparaffinic Hydrocarbon | Guinea pig | Not sensitizing |
| D-LIMONENE                | Mouse      | Sensitizing     |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name                      | Route    | Value                                                                        |
|---------------------------|----------|------------------------------------------------------------------------------|
| Isoparaffinic Hydrocarbon | In vivo  | Not mutagenic                                                                |
| Isoparaffinic Hydrocarbon | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| D-LIMONENE                | In Vitro | Not mutagenic                                                                |
| D-LIMONENE                | In vivo  | Not mutagenic                                                                |

**Carcinogenicity**

| Name                      | Route      | Species          | Value                                                                        |
|---------------------------|------------|------------------|------------------------------------------------------------------------------|
| Isoparaffinic Hydrocarbon | Dermal     | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| Isoparaffinic Hydrocarbon | Inhalation | Human and animal | Some positive data exist, but the data are not sufficient for classification |
| D-LIMONENE                | Ingestion  | Rat              | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                      | Route      | Value                                                                                            | Species                 | Test Result         | Exposure Duration            |
|---------------------------|------------|--------------------------------------------------------------------------------------------------|-------------------------|---------------------|------------------------------|
| Isoparaffinic Hydrocarbon | Inhalation | Not toxic to development                                                                         | Rat                     | NOAEL 2.4 mg/l      | during organogenesis         |
| D-LIMONENE                | Ingestion  | Some positive female reproductive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 750 mg/kg/day | premating & during gestation |
| D-LIMONENE                | Ingestion  | Some positive developmental data exist, but the data are not sufficient for classification       | Multiple animal species | NOAEL 591 mg/kg/day | during organogenesis         |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------|-------|-----------------|-------|---------|-------------|-------------------|
|------|-------|-----------------|-------|---------|-------------|-------------------|

|                           |            |                                   |                                                                              |                        |                     |         |
|---------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------------|---------------------|---------|
| Isoparaffinic Hydrocarbon | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal       | NOAEL Not available |         |
| Isoparaffinic Hydrocarbon | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |         |
| Isoparaffinic Hydrocarbon | Inhalation | nervous system                    | Some positive data exist, but the data are not sufficient for classification | Dog                    | NOAEL 6.5 mg/l      | 4 hours |
| Isoparaffinic Hydrocarbon | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Professional judgement | NOAEL Not available |         |
| D-LIMONENE                | Ingestion  | nervous system                    | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |         |

**Specific Target Organ Toxicity - repeated exposure**

| Name                      | Route      | Target Organ(s)                                                                                                                                   | Value                                                                        | Species                 | Test Result           | Exposure Duration |
|---------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|-------------------|
| Isoparaffinic Hydrocarbon | Inhalation | nervous system                                                                                                                                    | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 4.6 mg/l        | 6 months          |
| Isoparaffinic Hydrocarbon | Inhalation | kidney and/or bladder                                                                                                                             | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 1.9 mg/l        | 13 weeks          |
| Isoparaffinic Hydrocarbon | Inhalation | respiratory system                                                                                                                                | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.6 mg/l        | 90 days           |
| Isoparaffinic Hydrocarbon | Inhalation | bone, teeth, nails, and/or hair   blood   liver   muscles                                                                                         | All data are negative                                                        | Rat                     | NOAEL 5.6 mg/l        | 12 weeks          |
| Isoparaffinic Hydrocarbon | Inhalation | heart                                                                                                                                             | All data are negative                                                        | Multiple animal species | NOAEL 1.3 mg/l        | 90 days           |
| D-LIMONENE                | Ingestion  | kidney and/or bladder                                                                                                                             | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 75 mg/kg/day    | 103 weeks         |
| D-LIMONENE                | Ingestion  | liver                                                                                                                                             | Some positive data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks         |
| D-LIMONENE                | Ingestion  | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system | All data are negative                                                        | Rat                     | NOAEL 600 mg/kg/day   | 103 weeks         |

**Aspiration Hazard**

| Name                      | Value             |
|---------------------------|-------------------|
| Isoparaffinic Hydrocarbon | Aspiration hazard |
| D-LIMONENE                | Aspiration hazard |

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

## Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

## SECTION 14: Transport Information

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

## SECTION 15: Regulatory information

### 15.1. 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

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

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

Contact 3M for more information.

**15.4. International Regulations**

Contact 3M for more information.

This SDS 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 **Instability:** 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 **Physical Hazard:** 0 **Personal Protection:** B

Hazardous Material Identification System (HMIS® IV) 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® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

**Document Group:** 11-4628-1  
**Issue Date:** 10/07/16

**Version Number:** 34.03  
**Supersedes Date:** 04/24/15

**Reason for Reissue**

Conversion to GHS format SDS.

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**Document Group:** 06-4861-8

**Issue Date:** 04/19/17

**Version Number:** 11.02

**Supersedes Date:** 01/27/17

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ P55/R Lubricant, Red

#### Product Identification Numbers

78-8096-4318-8, 78-8126-9891-4, 80-6116-0479-6

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Electrical, ELECTRICAL LUBRICATING GREASE

#### 1.3. Supplier's details

**MANUFACTURER:** 3M

**DIVISION:** Electrical Markets Division

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

**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable.

#### Precautionary Statements

**Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

**2.3. Hazards not otherwise classified**

95% of the mixture consists of ingredients of unknown acute inhalation toxicity.

**SECTION 3: Composition/information on ingredients**

| Ingredient                                          | C.A.S. No.  | % by Wt |
|-----------------------------------------------------|-------------|---------|
| 1,1,2,3,3,3-HEXAFLUORO-1-PROPENE, OXIDIZED, POLYMD. | 69991-67-9  | 95 - 98 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | 112945-52-5 | <= 5    |
| C.I. PIGMENT RED 170                                | 2786-76-7   | <= 0.05 |

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**

No need for first aid is anticipated.

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable.

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Carbonyl Fluoride  
Carbon monoxide  
Carbon dioxide

**Condition**

During Combustion  
During Combustion  
During Combustion

Hydrogen Fluoride  
Oxides of Nitrogen

During Combustion  
During Combustion

### 5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

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

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

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. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. 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 SDS. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial or professional use only. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from strong bases.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient        | C.A.S. No.  | Agency | Limit type                                                       | Additional Comments |
|-------------------|-------------|--------|------------------------------------------------------------------|---------------------|
| SILICA, AMORPHOUS | 112945-52-5 | OSHA   | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

None required.

#### Skin/hand protection

No chemical protective gloves are required.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                         |                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------|
| General Physical Form:                  | Liquid                                                                       |
| Specific Physical Form:                 | Paste                                                                        |
| Odor, Color, Grade:                     | ODORLESS, RED COLOR, GREASE                                                  |
| Odor threshold                          | <i>Not Applicable</i>                                                        |
| pH                                      | <i>Not Applicable</i>                                                        |
| Melting point                           | <i>Not Applicable</i>                                                        |
| Boiling Point                           | 270 °C [ <i>Details: MITS data (per supplier info)</i> ]                     |
| Flash Point                             | Flash point > 93 °C (200 °F)                                                 |
| Evaporation rate                        | <i>No Data Available</i>                                                     |
| Flammability (solid, gas)               | Not Applicable                                                               |
| Flammable Limits(LEL)                   | <i>Not Applicable</i>                                                        |
| Flammable Limits(UEL)                   | <i>Not Applicable</i>                                                        |
| Vapor Pressure                          | ≤0.01 mmHg                                                                   |
| Vapor Density                           | <i>No Data Available</i>                                                     |
| Density                                 | <i>No Data Available</i>                                                     |
| Specific Gravity                        | Approximately 1.99 Units not avail. or not appl. [ <i>Ref Std: WATER=1</i> ] |
| Solubility in Water                     | Nil                                                                          |
| Solubility- non-water                   | <i>Not Applicable</i>                                                        |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i>                                                     |
| Decomposition temperature               | <i>Not Applicable</i>                                                        |
| Viscosity                               | <i>No Data Available</i>                                                     |
| Average particle size                   | <i>No Data Available</i>                                                     |
| Bulk density                            | <i>No Data Available</i>                                                     |
| Hazardous Air Pollutants                | <i>No Data Available</i>                                                     |
| Molecular weight                        | <i>No Data Available</i>                                                     |
| Volatile Organic Compounds              | <i>No Data Available</i>                                                     |

|                                |                   |
|--------------------------------|-------------------|
| Percent volatile               | 0.00 %            |
| Softening point                | No Data Available |
| VOC Less H2O & Exempt Solvents | No Data Available |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Not determined

### 10.5. Incompatible materials

Strong acids

Strong bases

Reactive metals

No Data Available

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

May be harmful if inhaled.

**Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

**Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion:**

No known health effects.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name                                                | Route                          | Species | Value                                          |
|-----------------------------------------------------|--------------------------------|---------|------------------------------------------------|
| Overall product                                     | Inhalation-Dust/Mist(4 hr)     |         | No data available; calculated ATE5 - 12.5 mg/l |
| Overall product                                     | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                                | Species | Value                     |
|-----------------------------------------------------|---------|---------------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                                | Species | Value                     |
|-----------------------------------------------------|---------|---------------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit  | No significant irritation |

**Skin Sensitization**

| Name                                                | Species          | Value           |
|-----------------------------------------------------|------------------|-----------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Human and animal | Not sensitizing |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name                                                | Route    | Value         |
|-----------------------------------------------------|----------|---------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name                                                | Route         | Species | Value                                                                        |
|-----------------------------------------------------|---------------|---------|------------------------------------------------------------------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Not Specified | Mouse   | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name                                                | Route     | Value                            | Species | Test Result           | Exposure Duration    |
|-----------------------------------------------------|-----------|----------------------------------|---------|-----------------------|----------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not toxic to female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not toxic to development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Specific Target Organ Toxicity - repeated exposure**

| Name                                                | Route      | Target Organ(s)                | Value                 | Species | Test Result         | Exposure Duration     |
|-----------------------------------------------------|------------|--------------------------------|-----------------------|---------|---------------------|-----------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation | respiratory system   silicosis | All data are negative | Human   | NOAEL Not available | occupational exposure |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include HF. Facility must be capable of handling halogenated materials.

Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

**SECTION 14: Transport Information**

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

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

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

#### EPCRA 311/312 Hazard Classifications (effective January 1, 2018):

##### Physical Hazards

Not applicable

##### Health Hazards

Not applicable

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

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

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

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

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 3   **Flammability:** 1   **Instability:** 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.

The NFPA Health code of 3 is due to emergency situations where the material may thermally decompose and release Hydrogen Fluoride. During normal use conditions, please reference Section 2 and Section 11 of the SDS for additional health hazard information.

### HMIS Hazard Classification

**Health:** 0   **Flammability:** 1   **Physical Hazard:** 0   **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) 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® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
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Conversion to GHS format SDS.

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