



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the South African National Standard SANS 10234:2008.

## IDENTIFICATION

### 1.1. Product identifier

7680-S SERIES QT III COLD SHRINK(TM) SILICONE RUBBER SKIRTED TERMINATIONS (sealing mastic)

#### Product Identification Numbers

80-6109-2268-6      80-6109-2270-2      80-6112-6155-5

### 1.2. Recommended use and restrictions on use

Electrical

### 1.3. Supplier's details

**Address:** 3M South Africa (Pty) Ltd, Private Bag X926, Rivonia 2128  
**Telephone:** 011 806 2000  
**E Mail:** Not available.  
**Website:** [www.3m.co.za](http://www.3m.co.za)

### 1.4. Emergency telephone number

011 806 2000

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

26-2852-7, 30-6019-1

## TRANSPORT INFORMATION

Compliance is required to South African Transport Information Road Traffic Act & Regulations and Railroad regulations, IATA Standards for airfreight and Maritime standards for ocean freight.

**DISCLAIMER:** The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

**3M South Africa SDSs are available at [www.3m.co.za](http://www.3m.co.za)**





## Safety Data Sheet

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This product is an article and does not require a Safety Data Sheet. When used as recommended or under ordinary conditions, this product should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

|                        |            |                         |                |
|------------------------|------------|-------------------------|----------------|
| <b>Document group:</b> | 30-6019-1  | <b>Version number:</b>  | 1.00           |
| <b>Issue Date:</b>     | 13/06/2017 | <b>Supersedes date:</b> | Initial issue. |

This Safety Data Sheet has been prepared in accordance with the South African National Standard SANS 10234:2008.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Sealing Compound (Mastic)

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

##### Recommended use

Sealant on QT-III Cold Shrink, Intermediate

#### 1.3. Supplier's details

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| <b>Address:</b>   | 3M South Africa (Pty) Ltd, Private Bag X926, Rivonia 2128 |
| <b>Telephone:</b> | 011 806 2000                                              |
| <b>E Mail:</b>    | Not available.                                            |
| <b>Website:</b>   | www.3m.co.za                                              |

#### 1.4. Emergency telephone number

011 806 2000

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Not classified as hazardous according to UN GHS criteria.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable.

## 3M™ Sealing Compound (Mastic)

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient                                      | CAS Nbr    | % by Wt |
|-------------------------------------------------|------------|---------|
| Calcium Carbonate                               | 471-34-1   | 50 - 60 |
| Propene, polymer with ethene                    | Mixture    | 40 - 55 |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | 25973-55-1 | < 0.5   |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

No need for first aid is anticipated.

#### Skin contact

No need for first aid is anticipated.

#### Eye contact

No need for first aid is anticipated.

#### 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 carbon dioxide or dry chemical extinguisher to extinguish.

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

None inherent in this product.

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

No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

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

Not applicable.

### 6.2. Environmental precautions

Not applicable.

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

Not applicable.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

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

Store away from heat.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Not applicable.

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

##### Eye/face protection

Eye protection not required.

##### Skin/hand protection

No chemical protective gloves are required.

##### Respiratory protection

Respiratory protection is not required.

## SECTION 9: Physical and chemical properties

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

|                                                   |                                                            |
|---------------------------------------------------|------------------------------------------------------------|
| Physical state                                    | Solid.                                                     |
| Appearance/Odour                                  | Roll of black vulcanized rubber on polyester release liner |
| Odour threshold                                   | <i>No data available.</i>                                  |
| pH                                                | <i>Not applicable.</i>                                     |
| Melting point/Freezing point                      | <i>No data available.</i>                                  |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i>                                     |
| Flash point                                       | No flash point                                             |
| Evaporation rate                                  | <i>Not applicable.</i>                                     |
| Flammability (solid, gas)                         | Not classified                                             |
| Flammable Limits(LEL)                             | <i>Not applicable.</i>                                     |
| Flammable Limits(UEL)                             | <i>Not applicable.</i>                                     |
| Vapour pressure                                   | <i>Not applicable.</i>                                     |

## 3M™ Sealing Compound (Mastic)

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Vapour density            | <i>Not applicable.</i>                          |
| Density                   | 1,15 g/cm <sup>3</sup> - 1,25 g/cm <sup>3</sup> |
| Relative density          | 1,15 - 1,25 [Details:Ref Std: Water = 1]        |
| Water solubility          | <i>Not applicable.</i>                          |
| Solubility- non-water     | <i>No data available.</i>                       |
| Autoignition temperature  | <i>Not applicable.</i>                          |
| Decomposition temperature | <i>No data available.</i>                       |

## 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 polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Not determined

### 10.6 Hazardous decomposition products

| <u>Substance</u>    | <u>Condition</u> |
|---------------------|------------------|
| Aldehydes.          | Not specified.   |
| Hydrocarbons.       | Not specified.   |
| Formaldehyde        | Not specified.   |
| Carbon monoxide.    | Not specified.   |
| Carbon dioxide.     | Not specified.   |
| Ketones.            | Not specified.   |
| Oxides of nitrogen. | Not specified.   |

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

## 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 labelling, 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

### 3M™ Sealing Compound (Mastic)

No health effects are expected.

#### 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 health effects are expected.

#### 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 |
| Propene, polymer with ethene                    | Dermal                         | Rabbit  | LD50 > 2 000 mg/kg                             |
| Propene, polymer with ethene                    | Ingestion                      | Rat     | LD50 > 5 000 mg/kg                             |
| Calcium Carbonate                               | Dermal                         | Rat     | LD50 > 2 000 mg/kg                             |
| Calcium Carbonate                               | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 3 mg/l                                    |
| Calcium Carbonate                               | Ingestion                      | Rat     | LD50 6 450 mg/kg                               |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | Dermal                         | Rabbit  | LD50 > 2 000 mg/kg                             |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 4,5 mg/l                                |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | Ingestion                      | Rat     | LD50 > 2 325 mg/kg                             |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                         | Species | Value                     |
|------------------------------|---------|---------------------------|
| Propene, polymer with ethene | Rabbit  | No significant irritation |
| Calcium Carbonate            | Rabbit  | No significant irritation |

#### Serious Eye Damage/Irritation

| Name                         | Species | Value                     |
|------------------------------|---------|---------------------------|
| Propene, polymer with ethene | Rabbit  | No significant irritation |
| Calcium Carbonate            | Rabbit  | No significant irritation |

#### Skin Sensitisation

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

#### Respiratory Sensitisation

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

#### Germ Cell Mutagenicity

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

#### Carcinogenicity

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

#### Reproductive Toxicity

**3M™ Sealing Compound (Mastic)****Reproductive and/or Developmental Effects**

| Name              | Route     | Value                          | Species | Test result         | Exposure Duration            |
|-------------------|-----------|--------------------------------|---------|---------------------|------------------------------|
| Calcium Carbonate | Ingestion | Not classified for development | Rat     | NOAEL 625 mg/kg/day | premating & during gestation |

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

| Name              | Route      | Target Organ(s)    | Value          | Species | Test result      | Exposure Duration |
|-------------------|------------|--------------------|----------------|---------|------------------|-------------------|
| Calcium Carbonate | Inhalation | respiratory system | Not classified | Rat     | NOAEL 0,812 mg/l | 90 minutes        |

**Specific Target Organ Toxicity - repeated exposure**

| Name              | Route      | Target Organ(s)    | Value          | Species | Test result         | Exposure Duration     |
|-------------------|------------|--------------------|----------------|---------|---------------------|-----------------------|
| Calcium Carbonate | Inhalation | respiratory system | Not classified | 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**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material                                        | CAS Nbr    | Organism             | Type                  | Exposure | Test endpoint | Test result |
|-------------------------------------------------|------------|----------------------|-----------------------|----------|---------------|-------------|
| Calcium Carbonate                               | 471-34-1   | Western Mosquitofish | Experimental          | 96 hours | LC50          | >100 mg/l   |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | 25973-55-1 | Rainbow trout        | Estimated             | 96 hours | LC50          | >100 mg/l   |
| Calcium Carbonate                               | 471-34-1   | Rainbow trout        | Experimental          | 21 days  | NOEC          | >100 mg/l   |
| Propene, polymer with                           | Mixture    |                      | Data not available or |          |               |             |

**3M™ Sealing Compound (Mastic)**

|        |  |  |                                 |  |  |  |
|--------|--|--|---------------------------------|--|--|--|
| ethene |  |  | insufficient for classification |  |  |  |
|--------|--|--|---------------------------------|--|--|--|

**12.2. Persistence and degradability**

| Material                                        | CAS Nbr    | Test type                                             | Duration | Study Type    | Test result | Protocol                          |
|-------------------------------------------------|------------|-------------------------------------------------------|----------|---------------|-------------|-----------------------------------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | 25973-55-1 | Estimated Biodegradation                              | 28 days  | CO2 evolution | 2 % weight  | OECD 301B - Modified sturm or CO2 |
| Propene, polymer with ethene                    | Mixture    | Data not available or insufficient for classification | N/A      | N/A           | N/A         | N/A                               |
| Calcium Carbonate                               | 471-34-1   | Data not available or insufficient for classification | N/A      | N/A           | N/A         | N/A                               |

**12.3 : Bioaccumulative potential**

| Material                                        | CAS Nbr    | Test type                                             | Duration | Study Type             | Test result | Protocol      |
|-------------------------------------------------|------------|-------------------------------------------------------|----------|------------------------|-------------|---------------|
| Propene, polymer with ethene                    | Mixture    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A           |
| Calcium Carbonate                               | 471-34-1   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A           |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | 25973-55-1 | Experimental BCF-Carp                                 | 60 days  | Bioaccumulation factor | 2400        | Other methods |

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

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

Product must only be disposed of by an authorized/permitted waste disposal contractor or incinerated in an industrial or commercial facility in the presence of a combustible material.

**SECTION 14: Transport Information**

Compliance is required to South African Transport Information Road Traffic Act & Regulations and Railroad regulations, IATA Standards for airfreight and Maritime standards for ocean freight.

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. 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 material are in compliance with the provisions of Japan Chemical Substance 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 Japan Industrial Safety and Health 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 new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

## **SECTION 16: Other information**

#### **Revision information:**

No revision information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 26-2852-7  | <b>Version number:</b>  | 3.00       |
| <b>Issue Date:</b>     | 27/07/2017 | <b>Supersedes date:</b> | 08/06/2017 |

This Safety Data Sheet has been prepared in accordance with the South African National Standard SANS 10234:2008.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Cable Preparation Kit CC-2 (Can)

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

##### Recommended use

Electrical, solvent soaked pads for cleaning cable

#### 1.3. Supplier's details

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| <b>Address:</b>   | 3M South Africa (Pty) Ltd, Private Bag X926, Rivonia 2128 |
| <b>Telephone:</b> | 011 806 2000                                              |
| <b>E Mail:</b>    | Not available.                                            |
| <b>Website:</b>   | www.3m.co.za                                              |

#### 1.4. Emergency telephone number

011 806 2000

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Flammable Liquid: Category 4.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1.

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

Acute Aquatic Toxicity: Category 2.

Chronic Aquatic Toxicity: Category 2.

#### 2.2. Label elements

##### Signal word

WARNING!

##### Symbols

Exclamation mark | Environment |

##### Pictograms

## 3M™ Cable Preparation Kit CC-2 (Can)



### HAZARD STATEMENTS:

|      |                                                  |
|------|--------------------------------------------------|
| H227 | Combustible liquid.                              |
| H315 | Causes skin irritation.                          |
| H317 | May cause an allergic skin reaction.             |
| H336 | May cause drowsiness or dizziness.               |
| H411 | Toxic to aquatic life with long lasting effects. |

### PRECAUTIONARY STATEMENTS

#### Prevention:

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| P210  | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P261  | Avoid breathing dust/fume/gas/mist/vapours/spray.                  |
| P280E | Wear protective gloves.                                            |
| P273  | Avoid release to the environment.                                  |

#### Response:

|              |                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| P333 + P313  | If skin irritation or rash occurs: Get medical advice/attention.                                                                |
| P370 + P378G | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |

#### Disposal:

|      |                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |
|------|----------------------------------------------------------------------------------------------------------------|

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient                              | CAS Nbr    | % by Wt |
|-----------------------------------------|------------|---------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | 50 - 70 |
| Cotton pads                             | None       | 25 - 40 |
| (R)-p-mentha-1,8-diene                  | 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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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/vapours/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 oxidising agents (eg. chlorine, chromic acid etc.)

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

## 3M™ Cable Preparation Kit CC-2 (Can)

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 oxidising 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                              | CAS Nbr    | Agency                  | Limit type  | Additional comments |
|-----------------------------------------|------------|-------------------------|-------------|---------------------|
| Naphtha (petroleum), hydrotreated heavy | 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

South Africa CLs : South Africa. Control Limits. Regulations for Hazardous Chemical Substances, Table 1

South Africa RELs : South Africa. Recommended Exposure Limits (RELs) Regulations for Hazardous Chemical Substances, Table 2

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/vapours/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 vapours

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

|                                                   |                                              |
|---------------------------------------------------|----------------------------------------------|
| Physical state                                    | Solid. (Lint-free cloths soaked with liquid) |
| Specific Physical Form:                           | Cloth pads soaked in liquid in can or bag    |
| Appearance/Odour                                  | citrus-like odour                            |
| Odour threshold                                   | <i>No data available.</i>                    |
| pH                                                | 7                                            |
| Melting point/Freezing point                      | <i>No data available.</i>                    |
| Boiling point/Initial boiling point/Boiling range | 193,3 °C - 248,9 °C                          |
| Flash point                                       | 62,2 °C [ <i>Test Method</i> :Closed Cup]    |
| Evaporation rate                                  | <i>No data available.</i>                    |
| Flammability (solid, gas)                         | Not classified                               |
| Flammable Limits(LEL)                             | <i>No data available.</i>                    |
| Flammable Limits(UEL)                             | <i>No data available.</i>                    |
| Vapour pressure                                   | < 133,3 Pa [ <i>@ 25 °C</i> ]                |
| Vapour density                                    | > 1 [ <i>Ref Std</i> :AIR=1]                 |
| Density                                           | 0,76 g/ml                                    |
| Relative density                                  | 0,76 [ <i>Ref Std</i> :WATER=1]              |
| Water solubility                                  | Nil                                          |
| Solubility- non-water                             | <i>No data available.</i>                    |
| Partition coefficient: n-octanol/water            | <i>No data available.</i>                    |
| Autoignition temperature                          | <i>No data available.</i>                    |
| Decomposition temperature                         | <i>No data available.</i>                    |
| Viscosity                                         | 1,5 mPa-s                                    |
| Molecular weight                                  | <i>No data available.</i>                    |
| Volatile organic compounds (VOC)                  | ± 740 g/l                                    |
| VOC less H <sub>2</sub> O & exempt solvents       | 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 polymerisation will not occur.

### 10.4 Conditions to avoid

Sparks and/or flames.

### 10.5 Incompatible materials

Strong oxidising 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 labelling, 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 diarrhoea.

#### 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 |
| Naphtha (petroleum), hydrotreated heavy | Inhalation-Vapor           |         | LC50 estimated to be 20 - 50 mg/l              |
| Naphtha (petroleum), hydrotreated heavy | Dermal                     | Rabbit  | LD50 > 3 000 mg/kg                             |
| Naphtha (petroleum), hydrotreated heavy | Ingestion                  | Rat     | LD50 > 5 000 mg/kg                             |
| (R)-p-mentha-1,8-diene                  | Inhalation-Vapor (4 hours) | Mouse   | LC50 > 3,14 mg/l                               |
| (R)-p-mentha-1,8-diene                  | Dermal                     | Rabbit  | LD50 > 5 000 mg/kg                             |
| (R)-p-mentha-1,8-diene                  | Ingestion                  | Rat     | LD50 4 400 mg/kg                               |

ATE = acute toxicity estimate

##### Skin Corrosion/Irritation

| Name                                    | Species | Value         |
|-----------------------------------------|---------|---------------|
| Naphtha (petroleum), hydrotreated heavy | Rabbit  | Irritant      |
| (R)-p-mentha-1,8-diene                  | Rabbit  | Mild irritant |

**3M™ Cable Preparation Kit CC-2 (Can)****Serious Eye Damage/Irritation**

| Name                                    | Species | Value                     |
|-----------------------------------------|---------|---------------------------|
| Naphtha (petroleum), hydrotreated heavy | Rabbit  | No significant irritation |
| (R)-p-mentha-1,8-diene                  | Rabbit  | Mild irritant             |

**Skin Sensitisation**

| Name                                    | Species    | Value          |
|-----------------------------------------|------------|----------------|
| Naphtha (petroleum), hydrotreated heavy | Guinea pig | Not classified |
| (R)-p-mentha-1,8-diene                  | Mouse      | Sensitising    |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name                                    | Route    | Value                                                                        |
|-----------------------------------------|----------|------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrotreated heavy | In vivo  | Not mutagenic                                                                |
| Naphtha (petroleum), hydrotreated heavy | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| (R)-p-mentha-1,8-diene                  | In Vitro | Not mutagenic                                                                |
| (R)-p-mentha-1,8-diene                  | In vivo  | Not mutagenic                                                                |

**Carcinogenicity**

| Name                                    | Route      | Species          | Value                                                                        |
|-----------------------------------------|------------|------------------|------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrotreated heavy | Dermal     | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | Human and animal | Some positive data exist, but the data are not sufficient for classification |
| (R)-p-mentha-1,8-diene                  | 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            |
|-----------------------------------------|------------|----------------------------------------|-------------------------|---------------------|------------------------------|
| Naphtha (petroleum), hydrotreated heavy | Inhalation | Not classified for development         | Rat                     | NOAEL 2,4 mg/l      | during organogenesis         |
| (R)-p-mentha-1,8-diene                  | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 750 mg/kg/day | premating & during gestation |
| (R)-p-mentha-1,8-diene                  | Ingestion  | Not classified for development         | 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 |
|-----------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------|---------------------|-------------------|
| Naphtha (petroleum), hydrotreated heavy | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal | NOAEL Not available |                   |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                  | NOAEL Not available |                   |
| Naphtha (petroleum),                    | Inhalation | nervous system                    | Not classified                                                               | Dog              | NOAEL 6,5           | 4 hours           |

**3M™ Cable Preparation Kit CC-2 (Can)**

|                                         |           |                                   |                                   |                        |                     |  |
|-----------------------------------------|-----------|-----------------------------------|-----------------------------------|------------------------|---------------------|--|
| hydrotreated heavy                      |           |                                   |                                   |                        | mg/l                |  |
| Naphtha (petroleum), hydrotreated heavy | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available |  |
| (R)-p-mentha-1,8-diene                  | Ingestion | nervous system                    | Not classified                    |                        | NOAEL Not available |  |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                    | Route      | Target Organ(s)                                                                                                                                   | Value          | Species                 | Test result           | Exposure Duration |
|-----------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|-----------------------|-------------------|
| Naphtha (petroleum), hydrotreated heavy | Inhalation | nervous system                                                                                                                                    | Not classified | Rat                     | LOAEL 4,6 mg/l        | 6 months          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | kidney and/or bladder                                                                                                                             | Not classified | Rat                     | LOAEL 1,9 mg/l        | 13 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | respiratory system                                                                                                                                | Not classified | Multiple animal species | NOAEL 0,6 mg/l        | 90 days           |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | bone, teeth, nails, and/or hair   blood   liver   muscles                                                                                         | Not classified | Rat                     | NOAEL 5,6 mg/l        | 12 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | heart                                                                                                                                             | Not classified | Multiple animal species | NOAEL 1,3 mg/l        | 90 days           |
| (R)-p-mentha-1,8-diene                  | Ingestion  | kidney and/or bladder                                                                                                                             | Not classified | Rat                     | LOAEL 75 mg/kg/day    | 103 weeks         |
| (R)-p-mentha-1,8-diene                  | Ingestion  | liver                                                                                                                                             | Not classified | Mouse                   | NOAEL 1 000 mg/kg/day | 103 weeks         |
| (R)-p-mentha-1,8-diene                  | Ingestion  | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system | Not classified | Rat                     | NOAEL 600 mg/kg/day   | 103 weeks         |

**Aspiration Hazard**

| Name                                    | Value             |
|-----------------------------------------|-------------------|
| Naphtha (petroleum), hydrotreated heavy | Aspiration hazard |
| (R)-p-mentha-1,8-diene                  | 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**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

GHS Acute 2: Toxic to aquatic life.

**Chronic aquatic hazard:**

GHS Chronic 2: Toxic to aquatic life with long lasting effects.

**3M™ Cable Preparation Kit CC-2 (Can)**

No product test data available.

| Material                                | CAS Nbr    | Organism       | Type         | Exposure | Test endpoint            | Test result |
|-----------------------------------------|------------|----------------|--------------|----------|--------------------------|-------------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Water flea     | Estimated    | 48 hours | Effect Level 50%         | 4,5 mg/l    |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Fathead minnow | Estimated    | 96 hours | Lethal Level 50%         | 8,2 mg/l    |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Green Algae    | Estimated    | 72 hours | Effect Level 50%         | 3,1 mg/l    |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Green Algae    | Estimated    | 72 hours | No obs Effect Level      | 0,5 mg/l    |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Water flea     | Estimated    | 21 days  | No obs Effect Level      | 2,6 mg/l    |
| (R)-p-mentha-1,8-diene                  | 5989-27-5  | Fathead minnow | Experimental | 96 hours | LC50                     | 0,702 mg/l  |
| (R)-p-mentha-1,8-diene                  | 5989-27-5  | Green Algae    | Experimental | 72 hours | EC50                     | 0,32 mg/l   |
| (R)-p-mentha-1,8-diene                  | 5989-27-5  | Water flea     | Experimental | 48 hours | EC50                     | 0,307 mg/l  |
| (R)-p-mentha-1,8-diene                  | 5989-27-5  | Green Algae    | Experimental | 72 hours | Effect Concentration 10% | 0,174 mg/l  |
| (R)-p-mentha-1,8-diene                  | 5989-27-5  | Water flea     | Experimental | 21 days  | NOEC                     | 0,08 mg/l   |

**12.2. Persistence and degradability**

| Material                                | CAS Nbr    | Test type                   | Duration | Study Type | Test result    | Protocol                       |
|-----------------------------------------|------------|-----------------------------|----------|------------|----------------|--------------------------------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Estimated Biodegradation    | 28 days  | BOD        | 10 % BOD/ThBOD | OECD 301D - Closed bottle test |
| (R)-p-mentha-1,8-diene                  | 5989-27-5  | Experimental Biodegradation | 14 days  | BOD        | 98 % BOD/ThBOD | OECD 301C - MITI test (I)      |

**12.3 : Bioaccumulative potential**

| Material                                | CAS Nbr    | Test type                                             | Duration | Study Type             | Test result | Protocol                           |
|-----------------------------------------|------------|-------------------------------------------------------|----------|------------------------|-------------|------------------------------------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                                |
| (R)-p-mentha-1,8-diene                  | 5989-27-5  | Estimated Bioconcentration                            |          | Bioaccumulation factor | 2100        | Estimated: Bioconcentration factor |

#### **12.4. Mobility in soil**

Please contact manufacturer for more details

#### **12.5 Other adverse effects**

No information available.

### **SECTION 13: Disposal considerations**

#### **13.1. Disposal methods**

Product must only be disposed of by an authorized/permitted waste disposal contractor or incinerated in an industrial or commercial facility in the presence of a combustible material.

### **SECTION 14: Transport Information**

Compliance is required to South African Transport Information Road Traffic Act & Regulations and Railroad regulations, IATA Standards for airfreight and Maritime standards for ocean freight.

### **SECTION 15: Regulatory information**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. 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 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 new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

### **SECTION 16: Other information**

#### **Revision information:**

US Section 01 Product Use - Recommended Use information was added.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Bioaccumulative potential information information was modified.

**DISCLAIMER:** The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

**3M South Africa SDSs are available at [www.3m.co.za](http://www.3m.co.za)**