



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Industrial Cleaner Bulk

#### Product Identification Numbers

UU-0094-7280-2

7100180981

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Hard Surface Cleaner

#### 1.3. Details of the supplier of the safety data sheet

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| <b>Address:</b>   | 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT. |
| <b>Telephone:</b> | +44 (0)1344 858 000                                                          |
| <b>E Mail:</b>    | ner-productstewardship@mmm.com                                               |
| <b>Website:</b>   | www.3M.com/uk                                                                |

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

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

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

#### CLASSIFICATION:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226  
 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315  
 Skin Sensitization, Category 1 - Skin Sens. 1; H317  
 Aspiration Hazard, Category 1 - Asp. Tox. 1; H304  
 Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400  
 Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

## 2.2. Label elements

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

### SIGNAL WORD

DANGER.

### Symbols

GHS02 (Flame) | GHS07 (Exclamation mark) | GHS08 (Health Hazard) | GHS09 (Environment) |

### Pictograms



| Ingredient             | Identifier(s) | EC No.    | % by Wt  |
|------------------------|---------------|-----------|----------|
| (R)-p-mentha-1,8-diene | 5989-27-5     | 227-813-5 | 95 - 100 |

### HAZARD STATEMENTS:

|      |                                                       |
|------|-------------------------------------------------------|
| H226 | Flammable liquid and vapour.                          |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H304 | May be fatal if swallowed and enters airways.         |
| H410 | Very toxic to aquatic life with long lasting effects. |

### PRECAUTIONARY STATEMENTS

#### Prevention:

|       |                                                                                                |
|-------|------------------------------------------------------------------------------------------------|
| P210  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P273  | Avoid release to the environment.                                                              |
| P280E | Wear protective gloves.                                                                        |

#### Response:

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor.        |
| P331        | Do NOT induce vomiting.                                          |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |

### Notes on labelling

Updated per Regulation (EC) No. 648/2004 as amended for Great Britain on detergents.

## 2.3. Other hazards

None known.

This material does not contain any substances that are assessed to be a PBT or vPvB

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

| Ingredient                         | Identifier(s)                             | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for GB                                                                |
|------------------------------------|-------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| (R)-p-mentha-1,8-diene             | (CAS-No.) 5989-27-5<br>(EC-No.) 227-813-5 | 95 - 100 | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1 |
| 7-methyl-3-methylenoocta-1,6-diene | (CAS-No.) 123-35-3<br>(EC-No.) 204-622-5  | < 5      | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1  |

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

### 3.2. Mixtures

Not applicable

## 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

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

#### If swallowed

Do not induce vomiting. Get immediate medical attention.

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

The most important symptoms and effects based on the GB CLP classification include:

Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing).

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

Not applicable.

## SECTION 5: Fire-fighting measures

### 5.1. 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.

### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>   |
|------------------|--------------------|
| Carbon monoxide  | During combustion. |
| Carbon dioxide.  | During combustion. |

### 5.3. Advice 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. 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

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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 vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

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

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 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.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

Take precautionary measures against static discharge. Do not breathe 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.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents.

### 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## 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.

#### Biological limit values

No biological 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

Use explosion-proof ventilation equipment.

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

##### Eye/face protection

None required.

##### 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:

| Material         | Thickness (mm) | Breakthrough Time |
|------------------|----------------|-------------------|
| Polymer laminate | >0.30          | 4-8 hours         |

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

##### Applicable Norms/Standards

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron

material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

### 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

Half facepiece or full facepiece supplied-air respirator

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

### Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136

Use a respirator conforming to EN 140 or EN 136: filter type A

## SECTION 9: Physical and chemical properties

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

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| Physical state                         | Liquid.                                       |
| Specific Physical Form:                | Clear Yellow to Amber Liquid                  |
| Colour                                 | Amber, Yellow                                 |
| Odor                                   | Citrus                                        |
| Odour threshold                        | No data available.                            |
| Melting point/freezing point           | No data available.                            |
| Boiling point/boiling range            | 154 °C                                        |
| Flammability                           | Flammable liquid: Category 3.                 |
| Flammable Limits(LEL)                  | 0.7 % volume                                  |
| Flammable Limits(UEL)                  | 6.1 % volume                                  |
| Flash point                            | 46 °C [Test Method:Pensky-Martens Closed Cup] |
| Autoignition temperature               | 237 °C                                        |
| Decomposition temperature              | No data available.                            |
| pH                                     | substance/mixture is non-polar/aprotic        |
| Kinematic Viscosity                    | No data available.                            |
| Water solubility                       | No data available.                            |
| Solubility- non-water                  | No data available.                            |
| Partition coefficient: n-octanol/water | 4.57 [Details:Log Pow]                        |
| Vapour pressure                        | 0.27 kPa [@ 20 °C ]                           |
| Density                                | 0.85 g/ml                                     |
| Relative density                       | 0.85 [Ref Std:WATER=1]                        |
| Relative Vapour Density                | >=1                                           |
| Particle Characteristics               | Not applicable.                               |

### 9.2. Other information

#### 9.2.2 Other safety characteristics

|                               |                    |
|-------------------------------|--------------------|
| EU Volatile Organic Compounds | No data available. |
| Evaporation rate              | 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 polymerisation will not occur.

**10.4 Conditions to avoid**

Heat.

**10.5 Incompatible materials**

Strong acids.

Strong bases.

Strong oxidising agents.

**10.6 Hazardous decomposition products****Substance****Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.****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. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin contact**

Skin Irritation: Signs/symptoms may include localised 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**

May be harmful if swallowed.

Chemical (aspiration) pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal. Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

**Additional Health Effects:****Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

### 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              |
|------------------------------------|-----------------------------|---------|--------------------|
| (R)-p-mentha-1,8-diene             | Inhalation-Vapour (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   |
| 7-methyl-3-methylenoocta-1,6-diene | Dermal                      | Rabbit  | LD50 > 5,000 mg/kg |
| 7-methyl-3-methylenoocta-1,6-diene | Ingestion                   | Rat     | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                               | Species       | Value    |
|------------------------------------|---------------|----------|
| (R)-p-mentha-1,8-diene             | Rabbit        | Irritant |
| 7-methyl-3-methylenoocta-1,6-diene | In vitro data | Irritant |

#### Serious Eye Damage/Irritation

| Name                               | Species | Value           |
|------------------------------------|---------|-----------------|
| (R)-p-mentha-1,8-diene             | Rabbit  | Mild irritant   |
| 7-methyl-3-methylenoocta-1,6-diene | Rabbit  | Severe irritant |

#### Skin Sensitisation

| Name                               | Species | Value          |
|------------------------------------|---------|----------------|
| (R)-p-mentha-1,8-diene             | Mouse   | Sensitising    |
| 7-methyl-3-methylenoocta-1,6-diene | Mouse   | Not classified |

#### Respiratory Sensitisation

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

#### Germ Cell Mutagenicity

| Name                               | Route    | Value         |
|------------------------------------|----------|---------------|
| (R)-p-mentha-1,8-diene             | In Vitro | Not mutagenic |
| (R)-p-mentha-1,8-diene             | In vivo  | Not mutagenic |
| 7-methyl-3-methylenoocta-1,6-diene | In Vitro | Not mutagenic |
| 7-methyl-3-methylenoocta-1,6-diene | In vivo  | Not mutagenic |

#### Carcinogenicity

| Name                               | Route     | Species                 | Value                                                                        |
|------------------------------------|-----------|-------------------------|------------------------------------------------------------------------------|
| (R)-p-mentha-1,8-diene             | Ingestion | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| 7-methyl-3-methylenoocta-1,6-diene | Ingestion | Multiple animal species | Carcinogenic.                                                                |

#### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure |
|------|-------|-------|---------|-------------|----------|
|------|-------|-------|---------|-------------|----------|

|                                    |           |                                        |                         |                     | <b>Duration</b>              |
|------------------------------------|-----------|----------------------------------------|-------------------------|---------------------|------------------------------|
| (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         |
| 7-methyl-3-methyleneocta-1,6-diene | Ingestion | Not classified for male reproduction   | Rat                     | NOAEL 500 mg/kg/day | 90 days                      |
| 7-methyl-3-methyleneocta-1,6-diene | Ingestion | Not classified for female reproduction | Rat                     | NOAEL 300 mg/kg/day | premating into lactation     |
| 7-methyl-3-methyleneocta-1,6-diene | Ingestion | Not classified for development         | Rat                     | NOAEL 300 mg/kg/day | premating into lactation     |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name                               | Route      | Target Organ(s)        | Value                                                                        | Species                | Test result         | Exposure Duration |
|------------------------------------|------------|------------------------|------------------------------------------------------------------------------|------------------------|---------------------|-------------------|
| (R)-p-mentha-1,8-diene             | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| (R)-p-mentha-1,8-diene             | Ingestion  | nervous system         | Not classified                                                               |                        | NOAEL Not available |                   |
| 7-methyl-3-methyleneocta-1,6-diene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available |                   |

### Specific Target Organ Toxicity - repeated exposure

| Name                               | Route     | Target Organ(s)                                                                                                                                   | Value                                                                        | Species | Test result           | Exposure Duration |
|------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|-----------------------|-------------------|
| (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         |
| 7-methyl-3-methyleneocta-1,6-diene | Ingestion | immune system                                                                                                                                     | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 500 mg/kg/day   | 14 weeks          |
| 7-methyl-3-methyleneocta-1,6-diene | Ingestion | kidney and/or bladder                                                                                                                             | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 250 mg/kg/day   | 14 weeks          |
| 7-methyl-3-methyleneocta-1,6-diene | Ingestion | hematopoietic system                                                                                                                              | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 1,000 mg/kg/day | 14 weeks          |
| 7-methyl-3-methyleneocta-1,6-diene | Ingestion | gastrointestinal tract   liver   respiratory system   heart   skin   endocrine system   bone, teeth, nails, and/or hair   nervous system   eyes   | Not classified                                                               | Rat     | NOAEL 2,000 mg/kg/day | 14 weeks          |

## Aspiration Hazard

| Name                               | Value             |
|------------------------------------|-------------------|
| (R)-p-mentha-1,8-diene             | Aspiration hazard |
| 7-methyl-3-methyleneocta-1,6-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.

## 11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

## SECTION 12: Ecological information

The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 12.1. Toxicity

No product test data available.

| Material                           | Identifier(s) | Organism       | Type         | Exposure | Test endpoint | Test result |
|------------------------------------|---------------|----------------|--------------|----------|---------------|-------------|
| (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 | ErC50         | 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     | Fathead minnow | Experimental | 8 days   | EC10          | 0.32 mg/l   |
| (R)-p-mentha-1,8-diene             | 5989-27-5     | Green algae    | Experimental | 72 hours | ErC10         | 0.174 mg/l  |
| (R)-p-mentha-1,8-diene             | 5989-27-5     | Water flea     | Experimental | 21 days  | NOEC          | 0.153 mg/l  |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Green algae    | Experimental | 72 hours | ErC50         | >1.6 mg/l   |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Medaka         | Experimental | 96 hours | LC50          | 0.92 mg/l   |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Water flea     | Experimental | 48 hours | EC50          | 0.45 mg/l   |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Green algae    | Experimental | 72 hours | NOEC          | 0.23 mg/l   |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Water flea     | Experimental | 21 days  | NOEC          | 0.12 mg/l   |

### 12.2. Persistence and degradability

| Material                           | Identifier(s) | Test type                   | Duration | Study Type                     | Test result           | Protocol                       |
|------------------------------------|---------------|-----------------------------|----------|--------------------------------|-----------------------|--------------------------------|
| (R)-p-mentha-1,8-diene             | 5989-27-5     | Experimental Biodegradation | 14 days  | BOD                            | 98 %BOD/ThOD          | OECD 301C - MITI test (I)      |
| (R)-p-mentha-1,8-diene             | 5989-27-5     | Experimental Biodegradation | 14 days  | Dissolv. Organic Carbon Deplet | >93.8 %removal of DOC | OECD 303A - Simulated Aerobic  |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Experimental Biodegradation | 28 days  | BOD                            | 76 %BOD/ThOD          | OECD 301D - Closed bottle test |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Experimental Photolysis     |          | Photolytic half-life (in air)  | 1.8 hours (t 1/2)     |                                |

### 12.3 : Bioaccumulative potential

| Material                           | Identifier(s) | Test type                     | Duration | Study Type             | Test result | Protocol                     |
|------------------------------------|---------------|-------------------------------|----------|------------------------|-------------|------------------------------|
| (R)-p-mentha-1,8-diene             | 5989-27-5     | Modeled Bioconcentration      |          | Bioaccumulation factor | 2100        | Catalogic™                   |
| (R)-p-mentha-1,8-diene             | 5989-27-5     | Experimental Bioconcentration |          | Log Kow                | 4.57        |                              |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Modeled Bioconcentration      |          | Bioaccumulation factor | 324         | Catalogic™                   |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Experimental Bioconcentration |          | Log Kow                | 4.82        | EC A.8 Partition Coefficient |

#### 12.4. Mobility in soil

| Material                           | Identifier(s) | Test type                | Study Type | Test result | Protocol  |
|------------------------------------|---------------|--------------------------|------------|-------------|-----------|
| (R)-p-mentha-1,8-diene             | 5989-27-5     | Modeled Mobility in Soil | Koc        | 9,245 l/kg  | Episuite™ |
| 7-methyl-3-methyleneocta-1,6-diene | 123-35-3      | Modeled Mobility in Soil | Koc        | 15,000 l/kg | Episuite™ |

#### 12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

#### 12.6. Other adverse effects

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

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

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

#### EU waste code (product as sold)

070704\* Other organic solvents, washing liquids and mother liquors

### SECTION 14: Transportation information

|                               | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|-------------------------------|------------------------|----------------------|-------------------------|
| 14.1 - UN Number or ID number | UN2319                 | UN2319               | UN2319                  |

|                                                                   |                                                                        |                                                                        |                                                                        |
|-------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>14.2 UN proper shipping name</b>                               | TERPENE HYDROCARBONS, N.O.S.(D-LIMONENE)                               | TERPENE HYDROCARBONS, N.O.S.(D-LIMONENE)                               | TERPENE HYDROCARBONS, N.O.S.(D-LIMONENE)                               |
| <b>14.3 Transport hazard class(es)</b>                            | 3                                                                      | 3                                                                      | 3                                                                      |
| <b>14.4 Packing group</b>                                         | III                                                                    | III                                                                    | III                                                                    |
| <b>14.5 Environmental hazards</b>                                 | Environmentally Hazardous                                              | Not applicable.                                                        | Marine Pollutant                                                       |
| <b>14.6 Special precautions for user</b>                          | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| <b>14.7 Marine Transport in bulk according to IMO instruments</b> | No data available.                                                     | No data available.                                                     | No data available.                                                     |
| <b>Control Temperature</b>                                        | No data available.                                                     | No data available.                                                     | No data available.                                                     |
| <b>Emergency Temperature</b>                                      | No data available.                                                     | No data available.                                                     | No data available.                                                     |
| <b>ADR Classification Code</b>                                    | F1                                                                     | Not applicable.                                                        | Not applicable.                                                        |
| <b>IMDG Segregation Code</b>                                      | Not applicable.                                                        | Not applicable.                                                        | NONE                                                                   |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## SECTION 15: Regulatory information

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

#### Carcinogenicity

| <u>Ingredient</u>                  | <u>Identifier(s)</u> | <u>Classification</u>         | <u>Regulation</u>                           |
|------------------------------------|----------------------|-------------------------------|---------------------------------------------|
| (R)-p-mentha-1,8-diene             | 5989-27-5            | Gr. 3: Not classifiable       | International Agency for Research on Cancer |
| 7-methyl-3-methylenoocta-1,6-diene | 123-35-3             | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

#### 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 Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

### COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories                       | Qualifying quantity (tonnes) for the application of |                         |
|-----------------------------------------|-----------------------------------------------------|-------------------------|
|                                         | Lower-tier requirements                             | Upper-tier requirements |
| E1 Hazardous to the Aquatic environment | 100                                                 | 200                     |
| P5c FLAMMABLE LIQUIDS*                  | 5000                                                | 50000                   |

\*If maintained at a temperature above its boiling point or if particular processing conditions, such as high pressure or high temperature, may create major-accident hazards, P5a or P5b FLAMMABLE LIQUIDS may apply

Seveso named dangerous substances, Annex 1, Part 2

None

### Regulation (EU) No 649/2012, as amended for GB

No chemicals listed

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended for GB.

## SECTION 16: Other information

### List of relevant H statements

|      |                                                       |
|------|-------------------------------------------------------|
| H226 | Flammable liquid and vapour.                          |
| H304 | May be fatal if swallowed and enters airways.         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

### Revision information:

EU Section 14 - Table Data information was added.

EU Section 14 - Table Headers information was added.

GBSDS Section 14 Transport in bulk - Main Heading information was deleted.

GBSDS Section 14 UN Number information was deleted.

Section 1: E-mail address information was modified.

Label: CLP Precautionary - Response information was modified.

Label: Graphic information was modified.

Section 3: Composition/ Information of ingredients table information was modified.

Section 6: Accidental release personal information was modified.

Section 7: Conditions safe storage information was modified.

Section 08: Personal Protection - Apron Statement information was added.

Section 8: Personal Protection - Skin/body information information was deleted.

Section 8: Skin protection - protective clothing information information was deleted.

Section 9: Vapour pressure value information was added.

Section 9: Vapour pressure value information was deleted.

Section 12: Component ecotoxicity information information was modified.

Section 12: Mobility in soil information information was modified.

Section 14 Classification Code – Main Heading information was deleted.

Section 14 Classification Code – Regulation Data information was deleted.

Section 14 Control Temperature – Main Heading information was deleted.

Section 14 Control Temperature – Regulation Data information was deleted.

Section 14 Emergency Temperature – Main Heading information was deleted.

Section 14 Emergency Temperature – Regulation Data information was deleted.

Section 14 Hazard Class + Sub Risk – Main Heading information was deleted.

Section 14 Hazard Class + Sub Risk – Regulation Data information was deleted.

Section 14 Other Dangerous Goods – Main Heading information was deleted.

Section 14 Other Dangerous Goods – Regulation Data information was deleted.

Section 14 Packing Group – Main Heading information was deleted.

Section 14 Packing Group – Regulation Data information was deleted.

Section 14 Proper Shipping Name information was deleted.

Section 14 Regulations – Main Headings information was deleted.

Section 14 Segregation – Regulation Data information was deleted.

Section 14 Segregation Code – Main Heading information was deleted.

Section 14 Special Precautions – Main Heading information was deleted.

Section 14 Special Precautions – Regulation Data information was deleted.

Section 14 Transport in bulk – Regulation Data information was deleted.

Section 14 UN Number Column data information was deleted.

Section 15: Seveso Substance Text information was deleted.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. 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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

**3M SDSs for Great Britain are available at [www.3M.com/uk](http://www.3M.com/uk)**

For Northern Ireland documents, please contact your 3M representative to obtain a copy.