



## Safety Data Sheet

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|                                       |                   |                         |            |
|---------------------------------------|-------------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

#### 1.1. Product identifier

3M Scotch-Weld Spray 77 Multipurpose Adhesive

#### Product Identification Numbers

|                |                |                |
|----------------|----------------|----------------|
| UU-0015-4747-8 | YP-2080-6119-9 | YP-2080-6163-7 |
| 7000042448     | 7000148092     | 7100040280     |

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

##### Identified uses

Aerosol Adhesive

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

**Address:** 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.  
**Telephone:** +44 (0)1344 858 000  
**E Mail:** tox.uk@mmm.com  
**Website:** 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

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

Aerosol, Category 1 - Aerosol 1; H222, H229  
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315  
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336  
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

## 2.2. Label elements

### CLP REGULATION (EC) No 1272/2008

#### SIGNAL WORD

DANGER.

#### Symbols:

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS09 (Environment) |

#### Pictograms



#### Ingredients:

| Ingredient                                       | CAS Nbr   | % by Wt |
|--|-----------|---------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | 10 - 30 |
| Cyclohexane                                      | 110-82-7  | 7 - 13  |

#### HAZARD STATEMENTS:

|      |  |
|------|--|
| H222 | Extremely flammable aerosol.                     |
| H229 | Pressurised container. may burst if heated.      |
| H315 | Causes skin irritation.                          |
| H336 | May cause drowsiness or dizziness.               |
| H411 | Toxic to aquatic life with long lasting effects. |

#### PRECAUTIONARY STATEMENTS

##### General:

|      |                                |
|------|--------------------------------|
| P102 | Keep out of reach of children. |
|------|--------------------------------|

##### Prevention:

|       |  |
|-------|--|
| P210A | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211  | Do not spray on an open flame or other ignition source.  |
| P251  | Do not pierce or burn, even after use.   |

##### Storage:

|             |  |
|-------------|--|
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. |
|-------------|--|

##### Disposal:

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

10% of the mixture consists of components of unknown acute oral toxicity.

Contains 57% of components with unknown hazards to the aquatic environment.

#### Notes on labelling

H304 is not required on the label because the product is an aerosol.

## 2.3. Other hazards

None known.

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

| Ingredient   | CAS Nbr      | EU Inventory | % by Wt | Classification  |
|--|--------------|--------------|---------|---|
| Non-Volatile Components  | Trade Secret |              | 10 - 30 | Substance not classified as hazardous   |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (REACH Reg. No.:01-2119475515-33) |              | 927-510-4    | 10 - 30 | Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 2, H411 (Vendor)                             |
| Propane  | 74-98-6      | 200-827-9    | 10 - 20 | Flam. Gas 1, H220; Liquified gas, H280 - Nota U (CLP)   |
| Butadiene Copolymer  | Trade Secret |              | 7 - 13  | Substance not classified as hazardous   |
| Hydrocarbons, C6, isoalkanes, < 5% n-Hexane (REACH Reg. No.:01-2119484651-34)      |              | 931-254-9    | 7 - 13  | Flam. Liq. 2, H225; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 2, H411 (Vendor)  |
| Dimethyl Ether   | 115-10-6     | 204-065-8    | 7 - 13  | Flam. Gas 1, H220; Liquified gas, H280 - Nota U (CLP)   |
| Cyclohexane  | 110-82-7     | 203-806-2    | 7 - 13  | Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 (CLP) |
| Non Volatile Compound  | Trade Secret |              | 5 - 10  | Substance not classified as hazardous   |
| Thermoplastic resin  | Trade Secret |              | 5 - 10  | Substance with a Community level exposure limit in the workplace  |
| Pentane  | 109-66-0     | 203-692-4    | 5 - 10  | Flam. Liq. 2, H225; Asp. Tox. 1, H304; STOT SE 3, H336; EUH066; Aquatic Chronic 2, H411 - Nota C (CLP)                                    |
| Butane (REACH Reg. No.:01-2119474691-32)   | 106-97-8     | 203-448-7    | 3 - 7   | Flam. Gas 1, H220; Liquified gas, H280 - Nota C,U (CLP)   |
| Limestone  | 1317-65-3    | 215-279-6    | 0 - 5   | Substance with a Community level exposure limit in the workplace  |
| Isobutane  | 75-28-5      | 200-857-2    | 1 - 5   | Flam. Gas 1, H220; Liquified gas, H280 - Nota C,U (CLP)   |
| 2-methylbutane   | 78-78-4      | 201-142-8    | 0.5 - 5 | Flam. Liq. 1, H224; Asp. Tox. 1, H304; STOT SE 3, H336; EUH066; Aquatic Chronic 2, H411 (CLP)   |

Note: Any entry in the EC# column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.  
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

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

**Inhalation**

Remove person to fresh air. 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**

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

**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**

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

Use a fire fighting agent suitable for the surrounding fire.

**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**

**Substance**

Aldehydes.  
Hydrocarbons.  
Formaldehyde  
Carbon monoxide.  
Carbon dioxide.  
Ketones.

**Condition**

During combustion.  
During combustion.  
During combustion.  
During combustion.  
During combustion.  
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.

**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 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. 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. 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

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. 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

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. 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. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

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

Store in a well-ventilated place. Keep container tightly closed to prevent loss of stabilizing materials. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Protect from sunlight. Store in a well-ventilated place. Store away from heat. Store away from acids. 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

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    |
|---------------------|--------------|--------|--|------------------------|
| Butane              | 106-97-8     | UK HSC | TWA:1450 mg/m <sup>3</sup> (600 ppm);STEL:1810 mg/m <sup>3</sup> (750 ppm)   |                        |
| Pentane             | 109-66-0     | UK HSC | TWA:1800 mg/m <sup>3</sup> (600 ppm)   |                        |
| Cyclohexane         | 110-82-7     | UK HSC | TWA:350 mg/m <sup>3</sup> (100 ppm);STEL:1050 mg/m <sup>3</sup> (300 ppm)  |                        |
| Dimethyl Ether      | 115-10-6     | UK HSC | TWA:766 mg/m <sup>3</sup> (400 ppm);STEL:958 mg/m <sup>3</sup> (500 ppm)   |                        |
| Limestone           | 1317-65-3    | UK HSC | TWA(as inhalable dust):10 mg/m <sup>3</sup> ;TWA(as respirable dust):4 mg/m <sup>3</sup> ;TWA(Inhalable):10 mg/m <sup>3</sup> ;TWA(respirable):4 mg/m <sup>3</sup> |                        |
| Propane             | 74-98-6      | UK HSC | Limit value not established:   | asphyxiant             |
| 2-methylbutane      | 78-78-4      | UK HSC | TWA:1800 mg/m <sup>3</sup> (600 ppm)   |                        |
| Thermoplastic resin | Trade Secret | UK HSC | TWA(as fume):0.05  | Respiratory Sensitizer |

**3M Scotch-Weld Spray 77 Multipurpose Adhesive**

mg/m<sup>3</sup>;STEL(as fume):0.15  
mg/m<sup>3</sup>

UK HSC : UK Health and Safety Commission  
TWA: Time-Weighted-Average  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

**Biological limit values**

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**Derived no effect level (DNEL)**

| Ingredient                                       | Degradation Product | Population | Human exposure pattern                                     | DNEL                    |
|--|---------------------|------------|--|-------------------------|
| Hydrocarbons, C6, isoalkanes, < 5% n-Hexane      |                     | Worker     | Dermal, Long-term exposure (8 hours), Systemic effects     | 13,964 mg/kg bw/d       |
| Hydrocarbons, C6, isoalkanes, < 5% n-Hexane      |                     | Worker     | Inhalation, Long-term exposure (8 hours), Systemic effects | 5,306 mg/m <sup>3</sup> |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |                     | Worker     | Dermal, Long-term exposure (8 hours), Systemic effects     | 300 mg/kg bw/d          |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |                     | Worker     | Inhalation, Long-term exposure (8 hours), Systemic effects | 2,085 mg/m <sup>3</sup> |

**8.2. Exposure controls**

In addition, refer to the annex for more information.

**8.2.1. Engineering controls**

Do not remain in area where available oxygen may be reduced. 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**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect vented goggles.

**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 | No data available | No data available |

**Respiratory protection**

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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 and particulates  
Half facepiece or full facepiece supplied-air respirator

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

### 8.2.3. Environmental exposure controls

Refer to Annex

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| Physical state                         | Gas.  |
| Specific Physical Form:                | Aerosol                                       |
| Appearance/Odour                       | Sweet odour; clear                            |
| Odour threshold                        | <i>No data available.</i>                     |
| pH                                     | <i>Not applicable.</i>                        |
| Boiling point/boiling range            | <i>Not applicable.</i>                        |
| Melting point                          | <i>Not applicable.</i>                        |
| Flammability (solid, gas)              | Flammable Aerosol: Category 1.                |
| Explosive properties                   | Not classified                                |
| Oxidising properties                   | Not classified                                |
| Flash point                            | -42 °C [ <i>Details: Aerosol Adhesive</i> ]   |
| Autoignition temperature               | <i>No data available.</i>                     |
| Flammable Limits(LEL)                  | <i>No data available.</i>                     |
| Flammable Limits(UEL)                  | <i>No data available.</i>                     |
| Vapour pressure                        | <i>Not applicable.</i>                        |
| Relative density                       | approximately 0.7 [ <i>Ref Std: WATER=1</i> ] |
| Water solubility                       | <i>No data available.</i>                     |
| Solubility- non-water                  | <i>Not applicable.</i>                        |
| Partition coefficient: n-octanol/water | <i>No data available.</i>                     |
| Evaporation rate                       | <i>No data available.</i>                     |
| Vapour density                         | <i>No data available.</i>                     |
| Decomposition temperature              | <i>Not applicable.</i>                        |
| Viscosity                              | <i>Not applicable.</i>                        |
| Density                                | <=0.7 g/ml                                    |

### 9.2. Other information

Percent volatile approximately 75 %

## 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.  
Sparks and/or flames.

#### 10.5 Incompatible materials

Strong acids.  
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 EU 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 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**

Intentional concentration and inhalation may be harmful or fatal. Simple asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal. 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 localised redness, swelling, itching, dryness, cracking, blistering, and pain.

##### **Eye contact**

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

##### **Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

#### **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.

Single exposure, above recommended guidelines, may cause:

Cardiac sensitisation: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

#### **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.



**3M Scotch-Weld Spray 77 Multipurpose Adhesive**
**Acute Toxicity**

| Name   | Route                          | Species       | Value  |
|--|--------------------------------|---------------|--|
| Overall product                                  | Dermal                         |               | No data available; calculated ATE >5,000 mg/kg |
| Overall product                                  | Inhalation-Vapour(4 hr)        |               | No data available; calculated ATE >50 mg/l     |
| Overall product                                  | Ingestion                      |               | No data available; calculated ATE >5,000 mg/kg |
| Propane  | Inhalation-Gas (4 hours)       | Rat           | LC50 > 200,000 ppm                             |
| Pentane  | Dermal                         | Rabbit        | LD50 3,000 mg/kg                               |
| Pentane  | Inhalation-Vapour (4 hours)    | Rat           | LC50 > 18 mg/l                                 |
| Pentane  | Ingestion                      | Rat           | LD50 > 2,000 mg/kg                             |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation-Vapour (4 hours)    | Not available | LC50 > 20 mg/l                                 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Dermal                         | Rabbit        | LD50 > 2,000 mg/kg                             |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion                      | Rat           | LD50 > 5,000 mg/kg                             |
| Cyclohexane                                      | Dermal                         | Rat           | LD50 > 2,000 mg/kg                             |
| Cyclohexane                                      | Inhalation-Vapour (4 hours)    | Rat           | LC50 > 32.9 mg/l                               |
| Cyclohexane                                      | Ingestion                      | Rat           | LD50 6,200 mg/kg                               |
| Dimethyl Ether                                   | Inhalation-Gas (4 hours)       | Rat           | LC50 164,000 ppm                               |
| Butadiene Copolymer                              | Dermal                         |               | LD50 estimated to be > 5,000 mg/kg             |
| Butadiene Copolymer                              | Ingestion                      |               | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Hydrocarbons, C6, isoalkanes, < 5% n- Hexane     | Dermal                         |               | LD50 > 5,000 mg/kg                             |
| Hydrocarbons, C6, isoalkanes, < 5% n- Hexane     | Inhalation-Vapour (4 hours)    | Rat           | LC50 > 20 mg/l                                 |
| Hydrocarbons, C6, isoalkanes, < 5% n- Hexane     | Ingestion                      | Rat           | LD50 > 5,000 mg/kg                             |
| Non Volatile Compound                            | Dermal                         |               | LD50 estimated to be > 5,000 mg/kg             |
| Non Volatile Compound                            | Ingestion                      | Rat           | LD50 > 34,000 mg/kg                            |
| Butane   | Inhalation-Gas (4 hours)       | Rat           | LC50 277,000 ppm                               |
| Thermoplastic resin                              | Dermal                         | Rat           | LD50 > 2,000 mg/kg                             |
| Thermoplastic resin                              | Ingestion                      | Rat           | LD50 > 2,000 mg/kg                             |
| Isobutane  | Inhalation-Gas (4 hours)       | Rat           | LC50 276,000 ppm                               |
| 2-methylbutane                                   | Dermal                         | Rabbit        | LD50 3,000 mg/kg                               |
| 2-methylbutane                                   | Inhalation-Vapour (4 hours)    | Rat           | LC50 > 18 mg/l                                 |
| 2-methylbutane                                   | Ingestion                      | Rat           | LD50 > 2,000 mg/kg                             |
| Limestone  | Dermal                         | Rat           | LD50 > 2,000 mg/kg                             |
| Limestone  | Inhalation-Dust/Mist (4 hours) | Rat           | LC50 3 mg/l                                    |
| Limestone  | Ingestion                      | Rat           | LD50 6,450 mg/kg                               |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species   | Value              |
|--|-----------|--------------------|
| Propane  | Rabbit    | Minimal irritation |
| Pentane  | Rabbit    | Minimal irritation |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Professio | Irritant           |

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|                     |                        |                           |
|---------------------|------------------------|---------------------------|
|                     | nal judgement          |                           |
| Cyclohexane         | Rabbit                 | Mild irritant             |
| Butadiene Copolymer | Professional judgement | Minimal irritation        |
| Butane              | Professional judgement | No significant irritation |
| Thermoplastic resin | Rabbit                 | No significant irritation |
| Isobutane           | Professional judgement | No significant irritation |
| 2-methylbutane      | Rabbit                 | Minimal irritation        |
| Limestone           | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| Propane  | Rabbit                 | Mild irritant             |
| Pentane  | Rabbit                 | Mild irritant             |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Professional judgement | No significant irritation |
| Cyclohexane                                      | Rabbit                 | Mild irritant             |
| Butane   | Rabbit                 | No significant irritation |
| Thermoplastic resin                              | Rabbit                 | Mild irritant             |
| Isobutane  | Professional judgement | No significant irritation |
| 2-methylbutane                                   | Rabbit                 | Mild irritant             |
| Limestone  | Rabbit                 | No significant irritation |

**Skin Sensitisation**

| Name   | Species          | Value           |
|--|------------------|-----------------|
| Pentane  | Guinea pig       | Not sensitising |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not available    | Not sensitising |
| Thermoplastic resin                              | Human and animal | Not sensitising |
| 2-methylbutane                                   | Guinea pig       | Not sensitising |

**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  |
|-------------|----------|--|
| Propane     | In Vitro | Not mutagenic  |
| Pentane     | In vivo  | Not mutagenic  |
| Pentane     | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Cyclohexane | In Vitro | Not mutagenic  |
| Cyclohexane | In vivo  | Some positive data exist, but the data are not                               |

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|                |          |  |
|----------------|----------|--|
|                |          | sufficient for classification  |
| Dimethyl Ether | In Vitro | Not mutagenic  |
| Dimethyl Ether | In vivo  | Not mutagenic  |
| Butane         | In Vitro | Not mutagenic  |
| Isobutane      | In Vitro | Not mutagenic  |
| 2-methylbutane | In vivo  | Not mutagenic  |
| 2-methylbutane | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name           | Route      | Species | Value            |
|----------------|------------|---------|------------------|
| Dimethyl Ether | Inhalation | Rat     | Not carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name           | Route      | Value  | Species | Test result           | Exposure Duration              |
|----------------|------------|--|---------|-----------------------|--------------------------------|
| Pentane        | Ingestion  | Not toxic to development   | Rat     | NOAEL 1,000 mg/kg/day | during organogenesis           |
| Pentane        | Inhalation | Not toxic to development   | Rat     | NOAEL 30 mg/l         | during organogenesis           |
| Cyclohexane    | Inhalation | Not toxic to female reproduction   | Rat     | NOAEL 24 mg/l         | 2 generation                   |
| Cyclohexane    | Inhalation | Not toxic to male reproduction   | Rat     | NOAEL 24 mg/l         | 2 generation                   |
| Cyclohexane    | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 6.9 mg/l        | 2 generation                   |
| Dimethyl Ether | Inhalation | Not toxic to development   | Rat     | NOAEL 40,000 ppm      | during organogenesis           |
| 2-methylbutane | Ingestion  | Not toxic to development   | Rat     | NOAEL 1,000 mg/kg/day | during organogenesis           |
| 2-methylbutane | Inhalation | Not toxic to development   | Rat     | NOAEL 30 mg/l         | during organogenesis           |
| Limestone      | Ingestion  | Not toxic to development   | Rat     | NOAEL 625 mg/kg/day   | prematuring & during gestation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name    | Route      | Target Organ(s)                   | Value  | Species                 | Test result         | Exposure Duration |
|---------|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| Propane | Inhalation | cardiac sensitisation             | Causes damage to organs  | Human                   | NOAEL Not available |                   |
| Propane | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                   |
| Propane | Inhalation | respiratory irritation            | All data are negative  | Human                   | NOAEL Not available |                   |
| Pentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Multiple animal species | NOAEL Not available | not available     |
| Pentane | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Not available           | NOAEL Not available | not available     |
| Pentane | Inhalation | cardiac sensitisation             | Some positive data exist, but the data are not sufficient for classification | Dog                     | NOAEL Not available | not available     |
| Pentane | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available | not available     |

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|  |            |                                   |  |                         |                     |               |
|--|------------|-----------------------------------|--|-------------------------|---------------------|---------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |               |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |               |
| Cyclohexane                                      | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal        | NOAEL Not available |               |
| Cyclohexane                                      | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal        | NOAEL Not available |               |
| Cyclohexane                                      | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |               |
| Dimethyl Ether                                   | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Rat                     | LOAEL 10,000 ppm    | 30 minutes    |
| Dimethyl Ether                                   | Inhalation | cardiac sensitisation             | Some positive data exist, but the data are not sufficient for classification | Dog                     | NOAEL 100,000 ppm   | 5 minutes     |
| Hydrocarbons, C6, isoalkanes, < 5% n-Hexane      | Inhalation | central nervous system depression | May cause drowsiness or dizziness  |                         | NOAEL Not available |               |
| Butane   | Inhalation | cardiac sensitisation             | Causes damage to organs  | Human                   | NOAEL Not available |               |
| Butane   | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal        | NOAEL Not available |               |
| Butane   | Inhalation | heart                             | Some positive data exist, but the data are not sufficient for classification | Dog                     | NOAEL 5,000 ppm     | 25 minutes    |
| Butane   | Inhalation | respiratory irritation            | All data are negative  | Rabbit                  | NOAEL Not available |               |
| Isobutane  | Inhalation | cardiac sensitisation             | Causes damage to organs  | Multiple animal species | NOAEL Not available |               |
| Isobutane  | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal        | NOAEL Not available |               |
| Isobutane  | Inhalation | respiratory irritation            | All data are negative  | Mouse                   | NOAEL Not available |               |
| 2-methylbutane                                   | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Multiple animal species | NOAEL Not available | not available |
| 2-methylbutane                                   | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Not available           | NOAEL Not available | not available |
| 2-methylbutane                                   | Inhalation | cardiac sensitisation             | Some positive data exist, but the data are not sufficient for classification | Dog                     | NOAEL Not available | not available |
| 2-methylbutane                                   | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available | not available |
| Limestone  | Inhalation | respiratory system                | All data are negative  | 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     |
|---------|------------|---------------------------|--|---------|---------------------|-----------------------|
| Pentane | Inhalation | peripheral nervous system | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available | occupational exposure |
| Pentane | Inhalation | heart   skin              | All data are negative  | Rat     | NOAEL 20            | 13 weeks              |

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|                |            |   |  |        |                       |                       |
|----------------|------------|---|--|--------|-----------------------|-----------------------|
|                |            | endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system                |  |        | mg/l                  |                       |
| Pentane        | Ingestion  | kidney and/or bladder   | All data are negative  | Rat    | NOAEL 2,000 mg/kg/day | 28 days               |
| Cyclohexane    | Inhalation | liver   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 24 mg/l         | 90 days               |
| Cyclohexane    | Inhalation | auditory system   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 1.7 mg/l        | 90 days               |
| Cyclohexane    | Inhalation | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rabbit | NOAEL 2.7 mg/l        | 10 weeks              |
| Cyclohexane    | Inhalation | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Mouse  | NOAEL 24 mg/l         | 14 weeks              |
| Cyclohexane    | Inhalation | peripheral nervous system   | All data are negative  | Rat    | NOAEL 8.6 mg/l        | 30 weeks              |
| Dimethyl Ether | Inhalation | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 25,000 ppm      | 2 years               |
| Dimethyl Ether | Inhalation | liver   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 20,000 ppm      | 30 weeks              |
| Butane         | Inhalation | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 4,489 ppm       | 90 days               |
| Butane         | Inhalation | blood   | All data are negative  | Rat    | NOAEL 4,489 ppm       | 90 days               |
| Isobutane      | Inhalation | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 4,500 ppm       | 13 weeks              |
| 2-methylbutane | Inhalation | peripheral nervous system   | Some positive data exist, but the data are not sufficient for classification | Human  | NOAEL Not available   | occupational exposure |
| 2-methylbutane | Inhalation | heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system | All data are negative  | Rat    | NOAEL 20 mg/l         | 13 weeks              |
| 2-methylbutane | Ingestion  | kidney and/or bladder   | All data are negative  | Rat    | NOAEL 2,000 mg/kg/day | 28 days               |
| Limestone      | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Human  | NOAEL Not available   | occupational exposure |

**Aspiration Hazard**

| Name   | Value             |
|--|-------------------|
| Pentane  | Aspiration hazard |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Aspiration hazard |

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|  |                   |
|--|-------------------|
| Cyclohexane                                  | Aspiration hazard |
| Hydrocarbons, C6, isoalkanes, < 5% n- Hexane | Aspiration hazard |
| 2-methylbutane                               | 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 agree with the EU 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                     | CAS Nbr      | Organism             | Type  | Exposure | Test endpoint       | Test result |
|------------------------------|--------------|----------------------|---|----------|---------------------|-------------|
| Butadiene Copolymer          | Trade Secret |                      | Data not available or insufficient for classification |          |                     |             |
| Butane                       | 106-97-8     |                      | Data not available or insufficient for classification |          |                     |             |
| Isobutane                    | 75-28-5      |                      | Data not available or insufficient for classification |          |                     |             |
| Limestone                    | 1317-65-3    | Western Mosquitofish | Experimental  | 96 hours | LC50                | >100 mg/l   |
| Limestone                    | 1317-65-3    | Rainbow trout        | Experimental  | 42 days  | NOEC                | >100 mg/l   |
| Cyclohexane                  | 110-82-7     | Water flea           | Experimental  | 48 hours | EC50                | 0.9 mg/l    |
| Cyclohexane                  | 110-82-7     | Fathead minnow       | Experimental  | 96 hours | LC50                | 4.53 mg/l   |
| Cyclohexane                  | 110-82-7     | Green Algae          | Experimental  | 72 hours | EC50                | 3.4 mg/l    |
| Pentane                      | 109-66-0     | Green Algae          | Experimental  | 72 hours | NOEC                | 2.04 mg/l   |
| Pentane                      | 109-66-0     | Green Algae          | Experimental  | 72 hours | EC50                | 7.51 mg/l   |
| Pentane                      | 109-66-0     | Water flea           | Experimental  | 48 hours | EC50                | 2.7 mg/l    |
| Pentane                      | 109-66-0     | Rainbow trout        | Experimental  | 96 hours | LC50                | 4.26 mg/l   |
| Dimethyl Ether               | 115-10-6     | Guppy                | Experimental  | 96 hours | LC50                | >4,100 mg/l |
| Dimethyl Ether               | 115-10-6     | Water flea           | Experimental  | 48 hours | EC50                | >4,400 mg/l |
| Thermoplastic resin          | Trade Secret | Green algae          | Estimated   |          | Effect Level 50%    | >100 mg/l   |
| Thermoplastic resin          | Trade Secret | Fathead minnow       | Estimated   |          | Lethal Level 50%    | >100 mg/l   |
| Thermoplastic resin          | Trade Secret | Water flea           | Estimated   |          | Effect Level 50%    | >100 mg/l   |
| Thermoplastic resin          | Trade Secret | Green Algae          | Estimated   |          | No obs Effect Level | >100 mg/l   |
| Hydrocarbons, C7, n-alkanes, | 927-510-4    |                      | Data not available or                                 |          |                     |             |

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|   |              |  |   |  |  |  |
|---|--------------|--|---|--|--|--|
| isoalkanes, cyclics                         |              |  | insufficient for classification                       |  |  |  |
| Hydrocarbons, C6, isoalkanes, < 5% n-Hexane | 931-254-9    |  | Data not available or insufficient for classification |  |  |  |
| 2-methylbutane                              | 78-78-4      |  | Data not available or insufficient for classification |  |  |  |
| Propane                                     | 74-98-6      |  | Data not available or insufficient for classification |  |  |  |
| Non Volatile Compound                       | Trade Secret |  | Data not available or insufficient for classification |  |  |  |

**12.2. Persistence and degradability**

| Material                                    | CAS Nbr      | Test type   | Duration | Study Type                    | Test result       | Protocol                            |
|---|--------------|---|----------|-------------------------------|-------------------|-------------------------------------|
| Pentane                                     | 109-66-0     | Experimental Biodegradation                           | 28 days  | BOD                           | 96 % weight       | OECD 301C - MITI test (I)           |
| 2-methylbutane                              | 78-78-4      | Experimental Biodegradation                           | 20 days  | Percent degraded              | 100 % weight      | Other methods                       |
| Thermoplastic resin                         | Trade Secret | Experimental Biodegradation                           | 28 days  | CO2 evolution                 | 47.3 % weight     | OECD 301B - Modified sturm or CO2   |
| Dimethyl Ether                              | 115-10-6     | Experimental Biodegradation                           | 28 days  | BOD                           | 5 % weight        | OECD 301D - Closed bottle test      |
| Cyclohexane                                 | 110-82-7     | Experimental Biodegradation                           | 28 days  | BOD                           | 77 % weight       | OECD 301F - Manometric respirometry |
| Non Volatile Compound                       | Trade Secret | Experimental Biodegradation                           | 28 days  | BOD                           | 0 % weight        | OECD 301C - MITI test (I)           |
| Limestone                                   | 1317-65-3    | Data not available or insufficient for classification | N/A      | N/A                           | N/A               | N/A                                 |
| Butadiene Copolymer                         | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                           | N/A               | N/A                                 |
| Hydrocarbons, C6, isoalkanes, < 5% n-Hexane | 931-254-9    | Data not available or insufficient for classification | N/A      | N/A                           | N/A               | N/A                                 |
| Pentane                                     | 109-66-0     | Experimental Photolysis                               |          | Photolytic half-life (in air) | 8.07 days (t 1/2) | Other methods                       |
| Butane                                      | 106-97-8     | Experimental Photolysis                               |          | Photolytic half-life (in air) | 12.3 days (t 1/2) | Other methods                       |
| Dimethyl Ether                              | 115-10-6     | Experimental Photolysis                               |          | Photolytic half-life (in air) | 12.4 days (t 1/2) | Other methods                       |
| Isobutane                                   | 75-28-5      | Experimental  |          | Photolytic half-              | 13.4 days (t      | Other methods                       |

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|  |           |   |     |                               |                   |               |
|--|-----------|---|-----|-------------------------------|-------------------|---------------|
|  |           | Photolysis  |     | life (in air)                 | 1/2)              |               |
| 2-methylbutane                                   | 78-78-4   | Experimental Photolysis                               |     | Photolytic half-life (in air) | 8.11 days (t 1/2) | Other methods |
| Propane  | 74-98-6   | Experimental Photolysis                               |     | Photolytic half-life (in air) | 27.5 days (t 1/2) | Other methods |
| Cyclohexane                                      | 110-82-7  | Experimental Photolysis                               |     | Photolytic half-life (in air) | 4.14 days (t 1/2) | Other methods |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 927-510-4 | 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                           |
|---|--------------|---|----------|------------------------|-------------|------------------------------------|
| Propane                                     | 74-98-6      | Experimental Bioconcentration                         |          | Log Kow                | 2.36        | Other methods                      |
| Isobutane                                   | 75-28-5      | Experimental Bioconcentration                         |          | Log Kow                | 2.76        | Other methods                      |
| Butane                                      | 106-97-8     | Experimental Bioconcentration                         |          | Log Kow                | 2.89        | Other methods                      |
| Cyclohexane                                 | 110-82-7     | Experimental BCF-Carp                                 | 56 days  | Bioaccumulation factor | <129        | Other methods                      |
| Pentane                                     | 109-66-0     | Estimated Bioconcentration                            |          | Bioaccumulation factor | 26          | Estimated: Bioconcentration factor |
| 2-methylbutane                              | 78-78-4      | Estimated Bioconcentration                            |          | Bioaccumulation factor | 65          | Estimated: Bioconcentration factor |
| Thermoplastic resin                         | Trade Secret | Estimated Bioconcentration                            |          | Bioaccumulation factor | 7.4         | Estimated: Bioconcentration factor |
| Limestone                                   | 1317-65-3    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                                |
| Non Volatile Compound                       | Trade Secret | Estimated BCF-Carp                                    | 70 days  | Bioaccumulation factor | 11100       | Other methods                      |
| Butadiene Copolymer                         | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                                |
| Hydrocarbons, C6, isoalkanes, < 5% n-Hexane | 931-254-9    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                                |
| Dimethyl Ether                              | 115-10-6     | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                                |
| Hydrocarbons,                               | 927-510-4    | Data not  | N/A      | N/A                    | N/A         | N/A                                |



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|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| C7, n-alkanes,<br>isoalkanes,<br>cyclics |  | available or<br>insufficient for<br>classification |  |  |  |  |
|--|--|--|--|--|--|--|

#### 12.4. Mobility in soil

Please contact manufacturer for more details

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

No information available at this time, contact manufacturer for more details

#### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

See Section 11.1 Information on toxicological effects

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. The facility should be equipped to handle gaseous waste. 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)

- 08 04 09\* Waste adhesives and sealants containing organic solvents or other dangerous substances
- 16 05 04\* Gases in pressure containers (including halons) containing dangerous substances

#### EU waste code (product container after use)

- 15 01 04 Metallic packaging

## SECTION 14: Transportation information

UU-0015-4747-8

**ADR/RID:** UN1950, AEROSOLS, LIMITED QUANTITY, 2.1, (E), ADR Classification Code: 5F.

**IMDG-CODE:** UN1950, AEROSOLS, 2.1, IMDG-Code segregation code: NONE, LIMITED QUANTITY, EMS: FD,SU.

**ICAO/IATA:** UN1950, AEROSOLS, FLAMMABLE, 2.1.

YP-2080-6119-9, YP-2080-6163-7

**ADR/RID:** UN1950, AEROSOLS, LIMITED QUANTITY, 2.1, (E), ADR Classification Code: 5F.

**IMDG-CODE:** UN1950, AEROSOLS, 2.1, IMDG-Code segregation code: NONE, LIMITED QUANTITY, EMS: FD,SU.

**ICAO/IATA:** UN1950, AEROSOLS, FLAMMABLE, 2.1.

## 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.

#### 15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out for the relevant substances in this material by the registrant in accordance with regulation REGULATION (EC) No 1907/2006

## SECTION 16: Other information

### List of relevant H statements

|        |   |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H220   | Extremely flammable gas.                              |
| H222   | Extremely flammable aerosol.                          |
| H224   | Extremely flammable liquid and vapour.                |
| H225   | Highly flammable liquid and vapour.                   |
| H229   | Pressurised container. may burst if heated.           |
| H280   | Contains gas under pressure; may explode if heated.   |
| H304   | May be fatal if swallowed and enters airways.         |
| H315   | Causes skin irritation.                               |
| H336   | May cause drowsiness or dizziness.                    |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |
| H411   | Toxic to aquatic life with long lasting effects.      |

### Revision information:

Industrial Application of Coatings: Section 16: Annex information was modified.

Professional Application of Coatings: Section 16: Annex information was modified.

Section 01: SAP Material Numbers information was added.

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

Section 12: Persistence and Degradability information information was modified.

Section 12:Biocumulative potential information information was modified.

## Annex

|   |   |
|---|---|
| <b>1. Title</b>   |   |
| <b>Substance identification</b>                               | Hydrocarbons, C6, isoalkanes, < 5% n- Hexane;<br>EC No. 931-254-9;<br>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics;<br>EC No. 927-510-4;  |
| <b>Exposure Scenario Name</b>                                 | Industrial Application of Coatings  |
| <b>Identified uses</b>  | PROC 07, ERC 04, SU 03 ;  |
| <b>Processes, tasks and activities covered</b>                | Application of product. Spraying of substances/mixtures.  |
| <b>2. Operational conditions and risk management measures</b> |   |
| <b>Operating Conditions</b>                                   | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Assumes use at not more than 20°C above ambient temperature;<br>Duration of exposure per day at workplace [for one worker]: 8 hours/day;<br>Emission days per year: <= 20 days per year;<br>Indoor use;<br>Outdoor use; |

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|                                  |   |
|----------------------------------|---|
| <b>Risk management measures</b>  | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>None needed;<br><b>Environmental:</b><br>None needed; |
| <b>Waste management measures</b> | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:   |
| <b>3. Prediction of exposure</b> |   |
| <b>Prediction of exposure</b>    | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.  |

|   |   |
|---|---|
| <b>1. Title</b>   |   |
| <b>Substance identification</b>                               | Hydrocarbons, C6, isoalkanes, < 5% n- Hexane;<br>EC No. 931-254-9;<br>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics;<br>EC No. 927-510-4;  |
| <b>Exposure Scenario Name</b>                                 | Professional Application of Coatings  |
| <b>Identified uses</b>  | PROC 11, ERC 08a, SU 22 ;   |
| <b>Processes, tasks and activities covered</b>                | Application of product. Spraying of substances/mixtures.  |
| <b>2. Operational conditions and risk management measures</b> |   |
| <b>Operating Conditions</b>                                   | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Assumes use at not more than 20°C above ambient temperature;<br>Duration of exposure per day at workplace [for one worker]: 8 hours/day;<br>Emission days per year: 365 days/year;<br>Indoor use;<br>Outdoor use; |
| <b>Risk management measures</b>                               | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>None needed;<br><b>Environmental:</b><br>None needed;   |
| <b>Waste management measures</b>                              | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:   |
| <b>3. Prediction of exposure</b>                              |   |
| <b>Prediction of exposure</b>                                 | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.  |

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 United Kingdom MSDSs are available at [www.3M.com/uk](http://www.3M.com/uk)