



## Safety Data Sheet

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|                        |            |                         |                |
|------------------------|------------|-------------------------|----------------|
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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) 5-Way Spray

#### Product Identification Numbers

IS-1201-1518-0

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

##### Recommended use

Penetrant, Lubricant and Demoisturizer

#### 1.3. Supplier's details

**Address:** 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100  
**Telephone:** 080-45543000, contact Product EHS team  
**E Mail:** productehs.in@mmm.com  
**Website:** <http://solutions.3mindia.co.in>

#### 1.4. Emergency telephone number

080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

### SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

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

Flammable Aerosol: Category 1.  
Skin Corrosion/Irritation: Category 3.  
Specific Target Organ Toxicity (single exposure): Category 1.  
Specific Target Organ Toxicity (single exposure): Category 3.  
Acute Aquatic Toxicity: Category 2.  
Chronic Aquatic Toxicity: Category 2.

#### 2.2. Label elements

**Signal Word**

DANGER!

### Symbols

Flame | Exclamation mark | Health Hazard | Environment |

### Pictograms



### HAZARD STATEMENTS:

H222 Extremely flammable aerosol.  
 H229 Pressurised container. may burst if heated.  
 H316 Causes mild skin irritation.  
 H336 May cause drowsiness or dizziness.

H370 Causes damage to organs:  
 cardiovascular system

H411 Toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

#### 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.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.

#### Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

#### Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.  
 P405 Store locked up.

#### Disposal:

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

### 2.3. Other hazards

Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient            | CAS Nbr    | % by Wt |
|-----------------------|------------|---------|
| Aliphatic hydrocarbon | 64742-47-8 | 50 - 60 |
| Butane                | 106-97-8   | 10 - 20 |
| Propane               | 74-98-6    | 10 - 20 |

|                            |            |       |
|----------------------------|------------|-------|
| Heavy Paraffinic Oil       | 64742-65-0 | 1 - 5 |
| Oxidized Hydrocarbon Waxes | 64743-00-6 | 1 - 5 |
| Petrolatum                 | 8009-03-8  | 1 - 5 |
| Petrolatum Oxidate Ester   | 68602-85-7 | 1 - 5 |
| Petroleum oil              | 64742-52-5 | 1 - 5 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Remove person to fresh air. Get medical attention.

#### Skin contact

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

#### Eye contact

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

#### If swallowed

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

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

No critical symptoms or effects. 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. Suitable 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

Carbon monoxide.  
Carbon dioxide.

#### Condition

During combustion.  
During combustion.

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

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

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

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. Contain spill. Cover spill area with a fire-extinguishing foam. 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 in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. 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 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. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from acids. Store away from oxidising agents.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

| Ingredient                                  | CAS Nbr    | Agency | Limit type   | Additional comments   |
|---|------------|--------|--|---|
| Butane                                      | 106-97-8   | ACGIH  | STEL:1000 ppm  |   |
| Kerosine (petroleum)                        | 64742-47-8 | ACGIH  | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3 | A3: Confirmed animal carcin., SKIN                          |
| Propane                                     | 74-98-6    | ACGIH  | Limit value not established:                           | asphyxiant  |
| Mineral oils (untreated and mildly treated) | 8009-03-8  | ACGIH  | Limit value not established:                           | A2: Suspected human carcin., Cntrl all exposr-low as possib |
| MINERAL OILS, HIGHLY-REFINED OILS           | 8009-03-8  | ACGIH  | TWA(inhalable fraction):5 mg/m3                        | A4: Not class. as human carcin                              |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 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.

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

#### 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 and particulates

Half facepiece or full facepiece supplied-air respirator

Organic vapor respirators may have short service life.

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

## SECTION 9: Physical and chemical properties

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

|  |  |
|--|--|
| <b>Physical state</b>                                    | Liquid.  |
| <b>Color</b>   | Amber  |
| <b>Odor</b>  | Strong Solvent                                 |
| <b>Odour threshold</b>                                   | <i>No data available.</i>                      |
| <b>pH</b>  | <i>No data available.</i>                      |
| <b>Melting point/Freezing point: NA</b>                  | <i>Not applicable.</i>                         |
| <b>Boiling point/Initial boiling point/Boiling range</b> | <=458 °C                                       |
| <b>Flash point</b>                                       | -29 °C [Test Method:Pensky-Martens Closed Cup] |
| <b>Evaporation rate</b>                                  | <i>No data available.</i>                      |
| <b>Flammability (solid, gas)</b>                         | Not applicable.                                |
| <b>Flammable Limits(LEL)</b>                             | 0.6 %  |
| <b>Flammable Limits(UEL)</b>                             | 9.5 %  |
| <b>Vapour pressure</b>                                   | <i>No data available.</i>                      |
| <b>Vapor Density and/or Relative Vapor Density</b>       | 2 [Ref Std: AIR=1]                             |
| <b>Density</b>   | 0.72 g/ml                                      |
| <b>Relative density</b>                                  | 0.72 [Ref Std: WATER=1]                        |
| <b>Water solubility</b>                                  | <i>No data available.</i>                      |
| <b>Solubility- non-water</b>                             | <i>No data available.</i>                      |
| <b>Partition coefficient: n-octanol/water</b>            | <i>No data available.</i>                      |
| <b>Autoignition temperature</b>                          | <i>No data available.</i>                      |
| <b>Decomposition temperature</b>                         | <i>Not applicable.</i>                         |
| <b>Viscosity/Kinematic Viscosity</b>                     | <i>No data available.</i>                      |

|   |   |
|---|---|
| <b>Volatile organic compounds (VOC)</b>   |   |
| <b>Percent volatile</b>                   |   |
| <b>VOC less H2O &amp; exempt solvents</b> | <=30 % [ <i>Test Method</i> :calculated per CARB title 2] |
| <b>Solids content</b>                     | 15 %  |

**Nanoparticles**

This material does not contain nanoparticles.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

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

**10.2 Chemical stability**

Stable.

**10.3 Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**

Sparks and/or flames.

**10.5 Incompatible materials**

Strong oxidising agents.

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

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

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

**11.1 Information on Toxicological effects****Signs and Symptoms of Exposure**

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

**Inhalation**

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**

Prolonged or repeated exposure may cause:

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

**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 Sensitization: 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.

**Acute Toxicity**

| Name                  | Route                          | Species | Value  |
|-----------------------|--------------------------------|---------|--|
| Overall product       | Dermal                         |         | No data available; calculated ATE >5,000 mg/kg |
| Overall product       | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| Aliphatic hydrocarbon | Dermal                         | Rabbit  | LD50 > 3,160 mg/kg                             |
| Aliphatic hydrocarbon | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 3 mg/l                                  |
| Aliphatic hydrocarbon | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| Propane               | Inhalation-Gas (4 hours)       | Rat     | LC50 > 200,000 ppm                             |
| Butane                | Inhalation-Gas (4 hours)       | Rat     | LC50 277,000 ppm                               |
| Petroleum oil         | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                             |
| Petroleum oil         | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| Petrolatum            | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Petrolatum            | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| Heavy Paraffinic Oil  | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Heavy Paraffinic Oil  | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 4 mg/l                                  |
| Heavy Paraffinic Oil  | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                  | Species                | Value                     |
|-----------------------|------------------------|---------------------------|
| Aliphatic hydrocarbon | Rabbit                 | Mild irritant             |
| Propane               | Rabbit                 | Minimal irritation        |
| Butane                | Professional judgement | No significant irritation |
| Petroleum oil         | Rabbit                 | Minimal irritation        |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|------|---------|-------|
|      |         |       |

|                       |        |                           |
|-----------------------|--------|---------------------------|
| Aliphatic hydrocarbon | Rabbit | Mild irritant             |
| Propane               | Rabbit | Mild irritant             |
| Butane                | Rabbit | No significant irritation |
| Petroleum oil         | Rabbit | Mild irritant             |

**Sensitization:****Skin Sensitisation**

| Name                  | Species    | Value          |
|-----------------------|------------|----------------|
| Aliphatic hydrocarbon | Guinea pig | Not classified |
| Petroleum oil         | Guinea pig | Not classified |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name                  | Route    | Value         |
|-----------------------|----------|---------------|
| Aliphatic hydrocarbon | In Vitro | Not mutagenic |
| Propane               | In Vitro | Not mutagenic |
| Butane                | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name                  | Route     | Species | Value  |
|-----------------------|-----------|---------|--|
| Aliphatic hydrocarbon | Dermal    | Mouse   | Some positive data exist, but the data are not sufficient for classification |
| Petroleum oil         | Ingestion | Rat     | Not carcinogenic   |
| Petroleum oil         | Dermal    | Mouse   | Some positive data exist, but the data are not sufficient for classification |

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

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

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

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



**3M(TM) 5-Way Spray**

|               |            |                        |  |            |                     |            |
|---------------|------------|------------------------|--|------------|---------------------|------------|
|               |            | system depression      | dizziness  | and animal | available           |            |
| Butane        | Inhalation | heart                  | Not classified   | Dog        | NOAEL<br>5,000 ppm  | 25 minutes |
| Butane        | Inhalation | respiratory irritation | Not classified   | Rabbit     | NOAEL Not available |            |
| Petroleum oil | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification |            | NOAEL Not available |            |

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route      | Target Organ(s)               | Value          | Species | Test result        | Exposure Duration |
|--------|------------|-------------------------------|----------------|---------|--------------------|-------------------|
| Butane | Inhalation | kidney and/or bladder   blood | Not classified | Rat     | NOAEL<br>4,489 ppm | 90 days           |

**Aspiration Hazard**

| Name                  | Value             |
|-----------------------|-------------------|
| Aliphatic hydrocarbon | Aspiration hazard |

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

**SECTION 12: Ecological information**

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

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

GHS Acute 2: Toxic to aquatic life.

**Chronic aquatic hazard:**

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

No product test data available.

| Material              | CAS Nbr    | Organism      | Type  | Exposure | Test endpoint | Test result |
|-----------------------|------------|---------------|---|----------|---------------|-------------|
| Aliphatic hydrocarbon | 64742-47-8 | Green Algae   | Estimated   | 72 hours | EC50          | 1 mg/l      |
| Aliphatic hydrocarbon | 64742-47-8 | Rainbow trout | Estimated   | 96 hours | LL50          | 2 mg/l      |
| Aliphatic hydrocarbon | 64742-47-8 | Water flea    | Estimated   | 48 hours | EL50          | 1.4 mg/l    |
| Aliphatic hydrocarbon | 64742-47-8 | Green Algae   | Estimated   | 72 hours | NOEL          | 1 mg/l      |
| Aliphatic hydrocarbon | 64742-47-8 | Water flea    | Estimated   | 21 days  | NOEL          | 0.48 mg/l   |
| Butane                | 106-97-8   |               | Data not available or insufficient for classification |          |               | N/A         |
| Propane               | 74-98-6    |               | Data not  |          |               | N/A         |

|                            |            |                |   |          |      |              |
|----------------------------|------------|----------------|---|----------|------|--------------|
|                            |            |                | available or insufficient for classification          |          |      |              |
| Heavy Paraffinic Oil       | 64742-65-0 | Green algae    | Estimated   | 96 hours | EC50 | >100 mg/l    |
| Heavy Paraffinic Oil       | 64742-65-0 | Water flea     | Estimated   | 48 hours | EC50 | >100 mg/l    |
| Heavy Paraffinic Oil       | 64742-65-0 | Rainbow trout  | Experimental  | 96 hours | LC50 | >100 mg/l    |
| Heavy Paraffinic Oil       | 64742-65-0 | Water flea     | Experimental  | 21 days  | NOEC | 100 mg/l     |
| Oxidized Hydrocarbon Waxes | 64743-00-6 |                | Data not available or insufficient for classification |          |      | N/A          |
| Petrolatum                 | 8009-03-8  | Fathead minnow | Estimated   | 96 hours | LL50 | >100 mg/l    |
| Petrolatum                 | 8009-03-8  | Water flea     | Estimated   | 48 hours | EL50 | >10,000 mg/l |
| Petrolatum                 | 8009-03-8  | Green Algae    | Estimated   | 72 hours | NOEL | 100 mg/l     |
| Petrolatum                 | 8009-03-8  | Water flea     | Estimated   | 21 days  | NOEL | 10 mg/l      |
| Petrolatum Oxidate Ester   | 68602-85-7 | Rainbow trout  | Estimated   | 96 hours | LL50 | 3,540 mg/l   |
| Petrolatum Oxidate Ester   | 68602-85-7 | Green algae    | Experimental  | 72 hours | EL50 | >100 mg/l    |
| Petrolatum Oxidate Ester   | 68602-85-7 | Water flea     | Experimental  | 48 hours | EL50 | >100 mg/l    |
| Petrolatum Oxidate Ester   | 68602-85-7 | Green algae    | Experimental  | 72 hours | NOEL | 100 mg/l     |
| Petroleum oil              | 64742-52-5 | Green algae    | Estimated   | 96 hours | EC50 | >100 mg/l    |
| Petroleum oil              | 64742-52-5 | Water flea     | Estimated   | 48 hours | EC50 | >100 mg/l    |

## 12.2. Persistence and degradability

| Material                   | CAS Nbr    | Test type                       | Duration | Study Type                    | Test result                        | Protocol                            |
|----------------------------|------------|---------------------------------|----------|-------------------------------|------------------------------------|-------------------------------------|
| Aliphatic hydrocarbon      | 64742-47-8 | Data not available-insufficient |          |                               | N/A                                |                                     |
| Butane                     | 106-97-8   | Experimental Photolysis         |          | Photolytic half-life (in air) | 12.3 days (t 1/2)                  | Non-standard method                 |
| Propane                    | 74-98-6    | Experimental Photolysis         |          | Photolytic half-life (in air) | 27.5 days (t 1/2)                  | Non-standard method                 |
| Heavy Paraffinic Oil       | 64742-65-0 | Experimental Biodegradation     | 28 days  | CO2 evolution                 | 23 % weight                        | Non-standard method                 |
| Oxidized Hydrocarbon Waxes | 64743-00-6 | Data not available-insufficient |          |                               | N/A                                |                                     |
| Petrolatum                 | 8009-03-8  | Estimated Biodegradation        | 28 days  | BOD                           | 31 %BOD/CO D                       | OECD 301F - Manometric respirometry |
| Petrolatum Oxidate Ester   | 68602-85-7 | Experimental Biodegradation     | 28 days  | CO2 evolution                 | 49 %CO2 evolution/THC O2 evolution | OECD 301B - Modified sturm or CO2   |
| Petroleum oil              | 64742-52-5 | Data not available-             |          |                               | N/A                                |                                     |

|  |  |              |  |  |  |  |
|--|--|--------------|--|--|--|--|
|  |  | insufficient |  |  |  |  |
|--|--|--------------|--|--|--|--|

### 12.3 : Bioaccumulative potential

| Material                   | CAS Nbr    | Test type   | Duration | Study Type | Test result | Protocol            |
|----------------------------|------------|---|----------|------------|-------------|---------------------|
| Aliphatic hydrocarbon      | 64742-47-8 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                 |
| Butane                     | 106-97-8   | Experimental Bioconcentration                         |          | Log Kow    | 2.89        | Non-standard method |
| Propane                    | 74-98-6    | Experimental Bioconcentration                         |          | Log Kow    | 2.36        | Non-standard method |
| Heavy Paraffinic Oil       | 64742-65-0 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                 |
| Oxidized Hydrocarbon Waxes | 64743-00-6 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                 |
| Petrolatum                 | 8009-03-8  | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                 |
| Petrolatum Oxidate Ester   | 68602-85-7 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                 |
| Petroleum oil              | 64742-52-5 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                 |

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other Adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. Facility must be capable of handling aerosol cans. 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.

## SECTION 14: Transport Information

### Air Transport (IATA) Regulations

UN No UN1950

Proper Shipping Name AEROSOLS, FLAMMABLE (contains flammable hydrocarbons)

Hazard Class/Division 2.1

Subsidiary Risk Not applicable

Packing Group: Not applicable

### Marine Transport (IMDG)

UN No UN1950

Proper Shipping Name AEROSOLS, FLAMMABLE (contains flammable hydrocarbons)

Hazard Class/Division 2.1

Subsidiary Risk Not applicable

Packing Group: Not applicable

Environmental Hazards: Not applicable

## SECTION 15: Regulatory information

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

#### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

#### Applicable Environmental, Health and Safety Regulations

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989

Hazardous Waste(Management , Handling & Transboundary) Rules, 2008

Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules

Butane, all isomers

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:

Product is classified as Very Highly Flammable (Aerosol) as per MSIHC Rules, 1989.

## SECTION 16: Other information

### NFPA Hazard Classification

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Revision information:**

No revision information

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

**3M India SDSs are available at <http://solutions.3mindia.co.in>**