

# Safety Data Sheet

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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<sup>™</sup> Novec<sup>™</sup> 1720 Electronic Grade Coating

#### **Product Identification Numbers**

98-0212-3193-5

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

## Recommended use

For industrial use only. Not intended for use as a medical device or drug., Coating applications in electronic industry

#### Restrictions on use

3M Electronics Materials Solutions Division (EMSD) will not knowingly sample, support, or sell its products for incorporation in medical and pharmaceutical products and applications in which the 3M product will be temporarily or permanently implanted into humans or animals. The customer is responsible for evaluating and determining that a 3M EMSD product is suitable and appropriate for its particular use and intended application. The conditions of evaluation, selection, and use of a 3M product can vary widely and affect the use and intended application of a 3M product. Because many of these conditions are uniquely within the user's knowledge and control, it is essential that the user evaluate and determine whether the 3M product is suitable and appropriate for a particular use and intended application, and complies with all local applicable laws, regulations, standards, and guidance.

# 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

Not classified as hazardous according to UN GHS criteria.

#### 2.2. Label elements

Signal Word

**Symbols** 

## **Pictograms**

Not applicable.

#### 2.3. Other hazards

None known.

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

This material is a mixture.

| Ingredient                      | CAS Nbr     | % by Wt |
|---------------------------------|-------------|---------|
| Methyl nonafluoroisobutyl ether | 163702-08-7 | 54 - 90 |
| Methyl nonafluorobutyl ether    | 163702-07-6 | 9 - 45  |

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation

No need for first aid is anticipated.

#### Skin contact

No need for first aid is anticipated.

### Eye contact

No need for first aid is anticipated.

#### If swallowed

No need for first aid is anticipated.

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

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

Not applicable

# **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

Exposure to extreme heat can give rise to thermal decomposition.

## **Hazardous Decomposition or By-Products**

Substance

Carbon monoxide.

Carbon dioxide.

Condition

During combustion. During combustion.

Hydrogen Fluoride

During combustion.

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

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

## **SECTION 6: Accidental release measures**

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

Ventilate the area with fresh air. Observe precautions from other sections.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. 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

Avoid inhalation of thermal decomposition products. Avoid skin contact with hot material. For industrial/occupational use only. Not for consumer sale or use. Store work clothes separately from other clothing, food and tobacco products. Avoid release to the environment. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products.

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

Store away from strong bases.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### Occupational exposure limits

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

| Ingredient                      | CAS Nbr    | Agency | Limit type  | Additional comments |
|---------------------------------|------------|--------|-------------|---------------------|
| Methyl nonafluorobutyl ether    | 163702-07- | AIHA   | TWA:750 ppm |                     |
|                                 | 6          |        |             |                     |
| Methyl nonafluoroisobutyl ether | 163702-08- | AIHA   | TWA:750 ppm |                     |
|                                 | 7          |        |             |                     |

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

Provide appropriate local exhaust when product is heated. Use general dilution ventilation and/or local exhaust ventilation

program appropriate round or manual products of foundation and or round or manual or round or

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

None required.

## Skin/hand protection

Chemical protective gloves are not required under normal use conditions. However, when the product is subjected to extreme heat, HF may be formed. For those cases, neoprene gloves and apron are recommended.

## Respiratory protection

During heating: Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

#### Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

| Information on basic physical and chemical propertie | es   |
|--|--|
| Physical state                                       | Liquid.  |
| Specific Physical Form:                              | Liquid.  |
|  |  |
| Color  | Colorless  |
| Odor   | Slight Ether   |
| Odour threshold                                      | No data available.                                       |
| рН   | Not applicable.  |
| Melting point/Freezing point: NA                     | -135 °C  |
| Boiling point/Initial boiling point/Boiling range    | 61 °C [@ 101,324.72 Pa ]                                 |
| Flash point  | No flash point   |
| Evaporation rate                                     | 49 [Ref Std:BUOAC=1]                                     |
| Flammability (solid, gas)                            | Not applicable.  |
| Flammable Limits(LEL)                                | None detected [Details: NONE acc to ASTM E681-94, @100C] |
| Flammable Limits(UEL)                                | None detected [Details: NONE acc to ASTM E681-94, @100C] |
| Vapour pressure                                      | 26,931 Pa [@ 25 °C ]                                     |
| Vapor Density and/or Relative Vapor Density          | 8.6 [ <i>Ref Std</i> :AIR=1]                             |
| Density  | 1.5 g/ml   |
| Relative density                                     | 1.5 [Ref Std:WATER=1]                                    |
| Water solubility                                     | < 12 ppm   |
| Solubility- non-water                                | No data available.                                       |
| Partition coefficient: n-octanol/water               | No data available.                                       |
| Autoignition temperature                             | 405 °C [Details:(ASTM E659-84)]                          |
| Decomposition temperature                            | No data available.                                       |
| Viscosity/Kinematic Viscosity                        | 0.6 mPa-s [@ 23 °C ]                                     |
| Volatile organic compounds (VOC)                     |  |
| Percent volatile                                     | > 99 %   |
| VOC less H2O & exempt solvents                       |  |
| Molecular weight                                     | No data available.                                       |
|  |  |

## 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

Not determined

#### 10.5 Incompatible materials

Strong bases.

# 10.6 Hazardous decomposition products

| <u>Substance</u>                | <u>Condition</u>         |                       |
|---------------------------------|--------------------------|-----------------------|
| Tetrafluoroethylene             | At elevated temperatures | extreme conditions of |
|                                 | heat                     |                       |
| Carbonyl fluoride.              | At elevated temperatures | extreme conditions of |
| •                               | heat                     |                       |
| Carbon monoxide.                | At elevated temperatures | extreme conditions of |
|                                 | heat                     |                       |
| Carbon dioxide.                 | At elevated temperatures | extreme conditions of |
|                                 | heat                     |                       |
| SILICON TETRAFLUORIDE           | At elevated temperatures | extreme conditions of |
|                                 | heat                     |                       |
| Hydrogen Fluoride               | At elevated temperatures | extreme conditions of |
| , ,                             | heat                     |                       |
| Perfluoroisobutylene (PFIB).    | At elevated temperatures | extreme conditions of |
|                                 | heat                     |                       |
| Toxic vapour, gas, particulate. | At elevated temperatures | extreme conditions of |
| 1 /2 /1                         | heat                     |                       |
|                                 |                          |                       |

C -- 1:4: --

Refer to section 5.2 for hazardous decomposition products during combustion.

If the product is exposed to extreme conditions of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

# **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

No known health effects.

#### Skin contact

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

#### Eye contact

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

#### Ingestion

No known health effects.

## **Toxicological Data**

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

#### **Acute Toxicity**

| Name                            | Route                             | Species | Value                              |
|---------------------------------|-----------------------------------|---------|------------------------------------|
| Methyl nonafluoroisobutyl ether | Dermal                            |         | LD50 estimated to be > 5,000 mg/kg |
| Methyl nonafluoroisobutyl ether | Inhalation-<br>Vapor (4<br>hours) | Rat     | LC50 > 1,000 mg/l                  |
| Methyl nonafluoroisobutyl ether | Ingestion                         | Rat     | LD50 > 5,000 mg/kg                 |
| Methyl nonafluorobutyl ether    | Dermal                            |         | LD50 estimated to be > 5,000 mg/kg |
| Methyl nonafluorobutyl ether    | Inhalation-<br>Vapor (4<br>hours) | Rat     | LC50 > 1,000 mg/l                  |
| Methyl nonafluorobutyl ether    | Ingestion                         | Rat     | LD50 > 5,000 mg/kg                 |

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

| Name                            | Species | Value                     |
|---------------------------------|---------|---------------------------|
|                                 |         |                           |
| Methyl nonafluoroisobutyl ether | Rabbit  | No significant irritation |
| Methyl nonafluorobutyl ether    | Rabbit  | No significant irritation |

#### Serious Eye Damage/Irritation

| Name                            | Species | Value                     |
|---------------------------------|---------|---------------------------|
| Methyl nonafluoroisobutyl ether | Rabbit  | No significant irritation |
| Methyl nonafluorobutyl ether    | Rabbit  | No significant irritation |

## **Sensitization:**

#### Skin Sensitisation

| OKI | ii Sensitisation              |         |                |
|-----|-------------------------------|---------|----------------|
| Nai | me                            | Species | Value          |
|     |                               |         |                |
| Me  | thyl nonafluoroisobutyl ether | Guinea  | Not classified |
|     |                               | pig     |                |
| Me  | thyl nonafluorobutyl ether    | Guinea  | Not classified |
|     |                               | pig     |                |

## **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         |
|---------------------------------|----------|---------------|
|                                 |          |               |
| Methyl nonafluoroisobutyl ether | In Vitro | Not mutagenic |
| Methyl nonafluoroisobutyl ether | In vivo  | Not mutagenic |
| Methyl nonafluorobutyl ether    | In Vitro | Not mutagenic |
| Methyl nonafluorobutyl ether    | In vivo  | Not mutagenic |

## Carcinogenicity

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

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

| Name                            | Route      | Value                                  | Species | Test result       | Exposure<br>Duration |
|---------------------------------|------------|--|---------|-------------------|----------------------|
| Methyl nonafluoroisobutyl ether | Inhalation | Not classified for female reproduction | Rat     | NOAEL 129<br>mg/l | 1 generation         |
| Methyl nonafluoroisobutyl ether | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 129<br>mg/l | 1 generation         |
| Methyl nonafluoroisobutyl ether | Inhalation | Not classified for development         | Rat     | NOAEL 307<br>mg/l | during<br>gestation  |
| Methyl nonafluorobutyl ether    | Inhalation | Not classified for female reproduction | Rat     | NOAEL 129<br>mg/l | 1 generation         |
| Methyl nonafluorobutyl ether    | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 129<br>mg/l | 1 generation         |
| Methyl nonafluorobutyl ether    | Inhalation | Not classified for development         | Rat     | NOAEL 307<br>mg/l | during<br>gestation  |

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

| Name                            | Route      | Target Organ(s)       | Value          | Species | Test result       | Exposure<br>Duration |
|---------------------------------|------------|-----------------------|----------------|---------|-------------------|----------------------|
| Methyl nonafluoroisobutyl ether | Inhalation | nervous system        | Not classified | Dog     | LOAEL 913<br>mg/l | 10 minutes           |
| Methyl nonafluoroisobutyl ether | Inhalation | cardiac sensitization | Not classified | Dog     | NOAEL 913<br>mg/l | 10 minutes           |
| Methyl nonafluorobutyl ether    | Inhalation | nervous system        | Not classified | Dog     | LOAEL 913<br>mg/l | 10 minutes           |
| Methyl nonafluorobutyl ether    | Inhalation | cardiac sensitization | Not classified | Dog     | NOAEL 913<br>mg/l | 10 minutes           |

Specific Target Organ Toxicity - repeated exposure

| Name                            | Route      | Target Organ(s)  | Value          | Species | Test result                 | Exposure Duration |
|---------------------------------|------------|--|----------------|---------|-----------------------------|-------------------|
| Methyl nonafluoroisobutyl ether | Inhalation | liver  | Not classified | Rat     | NOAEL 155<br>mg/l           | 13 weeks          |
| Methyl nonafluoroisobutyl ether | Inhalation | bone, teeth, nails, and/or hair  | Not classified | Rat     | NOAEL 129<br>mg/l           | 11 weeks          |
| Methyl nonafluoroisobutyl ether | Inhalation | heart   skin   endocrine system   gastrointestinal tract   hematopoietic system   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system | Not classified | Rat     | NOAEL 155<br>mg/l           | 13 weeks          |
| Methyl nonafluoroisobutyl ether | Ingestion  | endocrine system  <br>liver   heart  <br>hematopoietic<br>system   immune  | Not classified | Rat     | NOAEL<br>1,000<br>mg/kg/day | 28 days           |

|                              |            | system   nervous<br>system   eyes  <br>kidney and/or<br>bladder   respiratory<br>system   |                |     |                             |          |
|------------------------------|------------|---|----------------|-----|-----------------------------|----------|
| Methyl nonafluorobutyl ether | Inhalation | liver   | Not classified | Rat | NOAEL 155<br>mg/l           | 13 weeks |
| Methyl nonafluorobutyl ether | Inhalation | bone, teeth, nails,<br>and/or hair  | Not classified | Rat | NOAEL 129<br>mg/l           | 11 weeks |
| Methyl nonafluorobutyl ether | Inhalation | heart   skin  <br>endocrine system  <br>gastrointestinal tract<br>  hematopoietic<br>system   immune<br>system   muscles  <br>nervous system  <br>eyes   kidney and/or<br>bladder   respiratory<br>system | Not classified | Rat | NOAEL 155<br>mg/l           | 13 weeks |
| Methyl nonafluorobutyl ether | Ingestion  | endocrine system  <br>liver   heart  <br>hematopoietic<br>system   immune<br>system   nervous<br>system   eyes  <br>kidney and/or<br>bladder   respiratory<br>system                                      | Not classified | Rat | NOAEL<br>1,000<br>mg/kg/day | 28 days  |

#### **Aspiration Hazard**

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

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

# **SECTION 12: Ecological information**

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

## 12.1. Toxicity

# Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

## Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material       | CAS Nbr     | Organism    | Туре         | Exposure | Test endpoint | Test result |
|----------------|-------------|-------------|--------------|----------|---------------|-------------|
| Methyl         | 163702-08-7 | Fathead     | Endpoint not | 96 hours | LC50          | >100 mg/l   |
| nonafluoroisob |             | minnow      | reached      |          |               |             |
| utyl ether     |             |             |              |          |               |             |
| Methyl         | 163702-08-7 | Green Algae | Estimated    | 72 hours | EC50          | >100 mg/l   |
| nonafluoroisob |             |             |              |          |               | ļ           |
| utyl ether     |             |             |              |          |               |             |

| Methyl<br>nonafluoroisob     | 163702-08-7 | Water flea  | Estimated    | 48 hours | EC50 | >100 mg/l |
|------------------------------|-------------|-------------|--------------|----------|------|-----------|
| utyl ether                   |             |             |              |          |      |           |
| Methyl                       | 163702-08-7 | Green Algae | Estimated    | 72 hours | NOEC | 100 mg/l  |
| nonafluoroisob<br>utyl ether |             |             |              |          |      |           |
| Methyl                       | 163702-07-6 | Fathead     | Endpoint not | 96 hours | LC50 | >100 mg/l |
| nonafluorobuty<br>l ether    |             | minnow      | reached      |          |      |           |
| Methyl                       | 163702-07-6 | Green Algae | Estimated    | 72 hours | EC50 | >100 mg/l |
| nonafluorobuty<br>l ether    |             |             |              |          |      |           |
| Methyl                       | 163702-07-6 | Water flea  | Estimated    | 48 hours | EC50 | >100 mg/l |
| nonafluorobuty               |             |             |              |          |      |           |
| 1 ether                      |             |             |              |          |      |           |
| Methyl                       | 163702-07-6 | Green Algae | Estimated    | 72 hours | NOEC | 100 mg/l  |
| nonafluorobuty               |             |             |              |          |      |           |
| l ether                      |             |             |              |          |      |           |

## 12.2. Persistence and degradability

| Material       | CAS Nbr     | Test type      | Duration | Study Type | Test result | Protocol           |
|----------------|-------------|----------------|----------|------------|-------------|--------------------|
| Methyl         | 163702-08-7 | Estimated      | 28 days  | BOD        | 22 %        | OECD 301D - Closed |
| nonafluoroisob |             | Biodegradation | -        |            | BOD/ThBOD   | bottle test        |
| utyl ether     |             |                |          |            |             |                    |
| Methyl         | 163702-07-6 | Estimated      | 28 days  | BOD        | 22 %        | OECD 301D - Closed |
| nonafluorobuty |             | Biodegradation | -        |            | BOD/ThBOD   | bottle test        |
| 1 ether        |             | _              |          |            |             |                    |

# 12.3 : Bioaccumulative potential

| Material       | CAS Nbr     | Test type      | Duration | Study Type | Test result | Protocol            |
|----------------|-------------|----------------|----------|------------|-------------|---------------------|
| Methyl         | 163702-08-7 | Estimated      |          | Log Kow    | 4.0         | Non-standard method |
| nonafluoroisob |             | Bioconcentrati |          |            |             |                     |
| utyl ether     |             | on             |          |            |             |                     |
| Methyl         | 163702-07-6 | Estimated      |          | Log Kow    | 4.0         | Non-standard method |
| nonafluorobuty |             | Bioconcentrati |          |            |             |                     |
| l ether        |             | on             |          |            |             |                     |

## 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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include HF. Facility must be capable of handling halogenated materials. Empty and clean product containers may be disposed as non-

hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

# **SECTION 14: Transport Information**

Not hazardous for transportation.

#### Air Transport (IATA)Regulations

UN No Not applicable

Proper Shipping Name Not applicable Hazard Classs/Division Not applicable Subsidiary Risk Not applicable

**Packing Group:** Not applicable

Marine Transport (IMDG)

UN No Not applicable

**Proper Shipping Name** Not applicable **Hazard Classs/Division** Not applicable

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

#### 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

None.

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:

The product is classified as Non-Hazardous as per MSIHC Rules, 1989.

## **SECTION 16: Other information**

## NFPA Hazard Classification

Health: 3 Flammability: 1 Instability: 0 Special Hazards: None

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

## 3M<sup>TM</sup> Novec<sup>TM</sup> 1720 Electronic Grade Coating

#### **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