



## 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

Finesse-it Paste Glaze

#### Product Identification Numbers

IA-1101-6826-6      JC-2200-2988-1

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

##### Recommended use

Abrasive Product

#### 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

Skin Corrosion/Irritation: Category 3.  
Reproductive Toxicity: Category 2.

#### 2.2. Label elements

##### Signal Word

Warning

##### Symbols

Health Hazard |

**Pictograms****HAZARD STATEMENTS:**

H316 Causes mild skin irritation.  
 H361 Suspected of damaging fertility or the unborn child.

**PRECAUTIONARY STATEMENTS****Prevention:**

P280E Wear protective gloves.

**2.3. Other hazards**

Aspiration does not apply - viscosity      Aspiration hazard classification does not apply due to the kinematic viscosity of the product.  
 Aspiration classification does not apply due to the viscosity of the product.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| <b>Ingredient</b>                           | <b>CAS Nbr</b> | <b>% by Wt</b> |
|---------------------------------------------|----------------|----------------|
| Water                                       | 7732-18-5      | 50 - 75        |
| Distillates (petroleum), acid-treated light | 64742-14-9     | 5 - 15         |
| Naphtha (petroleum), hydrotreated heavy     | 64742-48-9     | 5 - 15         |
| Glycerol                                    | 56-81-5        | 1 - 10         |
| Aluminum Oxide (non-fibrous)                | 1344-28-1      | 1 - 10         |
| Filler                                      | Trade Secret   | < 5            |
| White mineral oil (petroleum)               | 8042-47-5      | < 3            |
| Morpholine                                  | 110-91-8       | < 1            |

## SECTION 4: First aid measures

**4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

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

**Eye contact**

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

**If swallowed**

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**

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

None inherent in this product.

### Hazardous Decomposition or By-Products

#### Substance

Hydrocarbons.  
Carbon monoxide.  
Carbon dioxide.  
Irritant vapours or gases.

#### Condition

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

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

No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

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

Evacuate area. 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. Use PPE - Exposure Assessment

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

### 6.2. Environmental precautions

Avoid release to the environment.

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

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. 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. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

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

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.

| <b>Ingredient</b>                                                                                  | <b>CAS Nbr</b> | <b>Agency</b> | <b>Limit type</b>                                | <b>Additional comments</b>                                     |
|----------------------------------------------------------------------------------------------------|----------------|---------------|--------------------------------------------------|----------------------------------------------------------------|
| Morpholine                                                                                         | 110-91-8       | ACGIH         | TWA:20 ppm                                       | A4: Not class. as human carcin, Danger of cutaneous absorption |
| Aluminum metal and insoluble compounds, respirable fraction                                        | 1344-28-1      | ACGIH         | TWA(respirable fraction):1 mg/m <sup>3</sup>     | A4: Not class. as human carcin                                 |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles               | 1344-28-1      | ACGIH         | TWA(inhalable particulates):10 mg/m <sup>3</sup> |                                                                |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles              | 1344-28-1      | ACGIH         | TWA(respirable particles):3 mg/m <sup>3</sup>    |                                                                |
| Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction | 8042-47-5      | ACGIH         | TWA(inhalable fraction):5 mg/m <sup>3</sup>      | 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**

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:

Safety glasses with side shields.

**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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Polymer laminate

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours

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

## SECTION 9: Physical and chemical properties

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

|                                                          |                                                                                                        |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Physical state</b>                                    | Liquid.                                                                                                |
| <b>Specific Physical Form:</b>                           | Paste                                                                                                  |
| <b>Color</b>                                             | White                                                                                                  |
| <b>Odor</b>                                              | Slight 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>No data available.</i>                                                                              |
| <b>Boiling point/Initial boiling point/Boiling range</b> | 100 °C                                                                                                 |
| <b>Flash point</b>                                       | No flash point [ <i>Test Method</i> :Closed Cup] [ <i>Details</i> :Seta Closed Cup Flash Point Tester] |
| <b>Evaporation rate</b>                                  | <i>No data available.</i>                                                                              |
| <b>Flammability</b>                                      | Not applicable.                                                                                        |
| <b>Flammable Limits(LEL)</b>                             | 0.8 %                                                                                                  |
| <b>Flammable Limits(UEL)</b>                             | 6 %                                                                                                    |
| <b>Vapour pressure</b>                                   | <i>No data available.</i>                                                                              |
| <b>Relative Vapor Density</b>                            | 1 [ <i>Details</i> :air=1]                                                                             |
| <b>Density</b>                                           | 1 kg/l                                                                                                 |
| <b>Relative density</b>                                  | 0.98 - 1.01                                                                                            |
| <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>No data available.</i>                                                                              |
| <b>Kinematic Viscosity</b>                               | 10,000 - 17,000 mm <sup>2</sup> /sec                                                                   |
| <b>Volatile organic compounds (VOC)</b>                  | <i>No data available.</i>                                                                              |
| <b>Percent volatile</b>                                  | <i>No data available.</i>                                                                              |
| <b>VOC less H<sub>2</sub>O &amp; exempt solvents</b>     | <i>No data available.</i>                                                                              |

|                                 |                        |
|---------------------------------|------------------------|
| <b>Particle Characteristics</b> | <i>Not applicable.</i> |
|---------------------------------|------------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

**10.3 Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**

None known.

**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**

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin contact**

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:****Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**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**

**Finesse-it Paste Glaze**

| 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 |
| Naphtha (petroleum), hydrotreated heavy     | Ingestion                      | Rat               | LD50 > 5,000 mg/kg                             |
| Naphtha (petroleum), hydrotreated heavy     | Dermal                         | similar compounds | LD50 > 5,000 mg/kg                             |
| Distillates (petroleum), acid-treated light | Dermal                         | Rabbit            | LD50 > 2,000 mg/kg                             |
| Distillates (petroleum), acid-treated light | Ingestion                      | Rat               | LD50 > 5,000 mg/kg                             |
| Aluminum Oxide (non-fibrous)                | Dermal                         |                   | LD50 estimated to be > 5,000 mg/kg             |
| Aluminum Oxide (non-fibrous)                | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 2.3 mg/l                                |
| Aluminum Oxide (non-fibrous)                | Ingestion                      | Rat               | LD50 > 5,000 mg/kg                             |
| Filler                                      | Dermal                         | Rabbit            | LD50 > 5,000 mg/kg                             |
| Filler                                      | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 0.691 mg/l                              |
| Filler                                      | Ingestion                      | Rat               | LD50 > 5,110 mg/kg                             |
| Glycerol                                    | Dermal                         | Rabbit            | LD50 estimated to be > 5,000 mg/kg             |
| Glycerol                                    | Ingestion                      | Rat               | LD50 > 5,000 mg/kg                             |
| White mineral oil (petroleum)               | Dermal                         | Rabbit            | LD50 > 2,000 mg/kg                             |
| White mineral oil (petroleum)               | Ingestion                      | Rat               | LD50 > 5,000 mg/kg                             |
| Morpholine                                  | Dermal                         | Rabbit            | LD50 500 mg/kg                                 |
| Morpholine                                  | Inhalation-Vapor               | Rat               | LC50 estimated to be 10 - 20 mg/l              |
| Morpholine                                  | Ingestion                      | Rat               | LD50 1,680 mg/kg                               |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                        | Species                | Value                     |
|---------------------------------------------|------------------------|---------------------------|
| Naphtha (petroleum), hydrotreated heavy     | similar compounds      | Mild irritant             |
| Distillates (petroleum), acid-treated light | Professional judgement | Mild irritant             |
| Aluminum Oxide (non-fibrous)                | Rabbit                 | No significant irritation |
| Filler                                      | Rabbit                 | No significant irritation |
| Glycerol                                    | Rabbit                 | No significant irritation |
| White mineral oil (petroleum)               | Rabbit                 | No significant irritation |
| Morpholine                                  | Rabbit                 | Corrosive                 |

**Serious Eye Damage/Irritation**

| Name                                        | Species                | Value                     |
|---------------------------------------------|------------------------|---------------------------|
| Naphtha (petroleum), hydrotreated heavy     | similar compounds      | No significant irritation |
| Distillates (petroleum), acid-treated light | Professional judgement | Mild irritant             |
| Aluminum Oxide (non-fibrous)                | Rabbit                 | No significant irritation |
| Filler                                      | Rabbit                 | No significant irritation |
| Glycerol                                    | Rabbit                 | No significant irritation |
| White mineral oil (petroleum)               | Rabbit                 | Mild irritant             |
| Morpholine                                  | Rabbit                 | Corrosive                 |

**Sensitization:**

**Skin Sensitisation**

| Name                                        | Species           | Value          |
|---------------------------------------------|-------------------|----------------|
| Naphtha (petroleum), hydrotreated heavy     | similar compounds | Not classified |
| Distillates (petroleum), acid-treated light | Guinea pig        | Not classified |
| Filler                                      | Human and animal  | Not classified |
| Glycerol                                    | Guinea pig        | Not classified |
| White mineral oil (petroleum)               | Guinea pig        | Not classified |
| Morpholine                                  | 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                                                                        |
|---------------------------------------------|----------|------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrotreated heavy     | In Vitro | Not mutagenic                                                                |
| Distillates (petroleum), acid-treated light | In Vitro | Not mutagenic                                                                |
| Aluminum Oxide (non-fibrous)                | In Vitro | Not mutagenic                                                                |
| Filler                                      | In Vitro | Not mutagenic                                                                |
| White mineral oil (petroleum)               | In Vitro | Not mutagenic                                                                |
| Morpholine                                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Morpholine                                  | In vivo  | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                        | Route          | Species                 | Value                                                                        |
|---------------------------------------------|----------------|-------------------------|------------------------------------------------------------------------------|
| Distillates (petroleum), acid-treated light | Dermal         | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Aluminum Oxide (non-fibrous)                | Inhalation     | Rat                     | Not carcinogenic                                                             |
| Filler                                      | Not specified. | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Glycerol                                    | Ingestion      | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| White mineral oil (petroleum)               | Dermal         | Mouse                   | Not carcinogenic                                                             |
| White mineral oil (petroleum)               | Inhalation     | Multiple animal species | Not carcinogenic                                                             |
| Morpholine                                  | Ingestion      | Multiple animal species | Not carcinogenic                                                             |
| Morpholine                                  | Inhalation     | Rat                     | Not carcinogenic                                                             |

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

| Name   | Route     | Value                                  | Species | Test result           | Exposure Duration    |
|--------|-----------|----------------------------------------|---------|-----------------------|----------------------|
| Filler | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| Filler | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| Filler | Ingestion | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |

|                               |           |                                        |                          |                             |                     |
|-------------------------------|-----------|----------------------------------------|--------------------------|-----------------------------|---------------------|
| Glycerol                      | Ingestion | Not classified for female reproduction | Rat                      | NOAEL<br>2,000<br>mg/kg/day | 2 generation        |
| Glycerol                      | Ingestion | Not classified for male reproduction   | Rat                      | NOAEL<br>2,000<br>mg/kg/day | 2 generation        |
| Glycerol                      | Ingestion | Not classified for development         | Rat                      | NOAEL<br>2,000<br>mg/kg/day | 2 generation        |
| White mineral oil (petroleum) | Ingestion | Not classified for female reproduction | Rat                      | NOAEL<br>4,350<br>mg/kg/day | 13 weeks            |
| White mineral oil (petroleum) | Ingestion | Not classified for male reproduction   | Rat                      | NOAEL<br>4,350<br>mg/kg/day | 13 weeks            |
| White mineral oil (petroleum) | Ingestion | Not classified for development         | Rat                      | NOAEL<br>4,350<br>mg/kg/day | during<br>gestation |
| Morpholine                    | Ingestion | Toxic to male reproduction             | similar<br>compoun<br>ds | NOAEL 60<br>mg/kg/day       | 2 generation        |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name                                        | Route      | Target Organ(s)                   | Value                                                                        | Species                | Test result         | Exposure Duration |
|---------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------------|---------------------|-------------------|
| Naphtha (petroleum), hydrotreated heavy     | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | similar compounds      | NOAEL Not available |                   |
| Naphtha (petroleum), hydrotreated heavy     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Distillates (petroleum), acid-treated light | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal       | NOAEL Not available |                   |
| Distillates (petroleum), acid-treated light | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                   |
| Distillates (petroleum), acid-treated light | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Professional judgement | NOAEL Not available |                   |
| Morpholine                                  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |

### Specific Target Organ Toxicity - repeated exposure

| Name                                    | Route      | Target Organ(s)                 | Value          | Species | Test result  | Exposure Duration |
|-----------------------------------------|------------|---------------------------------|----------------|---------|--------------|-------------------|
| Naphtha (petroleum), hydrotreated heavy | Inhalation | liver                           | Not classified | Rat     | NOAEL 6 mg/l | 13 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | kidney and/or bladder           | Not classified | Rat     | NOAEL 6 mg/l | 13 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | endocrine system                | Not classified | Rat     | NOAEL 6 mg/l | 13 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | gastrointestinal tract          | Not classified | Rat     | NOAEL 6 mg/l | 13 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | bone, teeth, nails, and/or hair | Not classified | Rat     | NOAEL 6 mg/l | 13 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | hematopoietic system            | Not classified | Rat     | NOAEL 6 mg/l | 13 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | muscles                         | Not classified | Rat     | NOAEL 6 mg/l | 13 weeks          |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | nervous system                  | Not classified | Rat     | NOAEL 6 mg/l | 13 weeks          |

|                                         |            |                        |                                                                              |            |                        |                       |
|-----------------------------------------|------------|------------------------|------------------------------------------------------------------------------|------------|------------------------|-----------------------|
| Naphtha (petroleum), hydrotreated heavy | Inhalation | respiratory system     | Not classified                                                               | Rat        | NOAEL 6 mg/l           | 13 weeks              |
| Naphtha (petroleum), hydrotreated heavy | Inhalation | vascular system        | Not classified                                                               | Rat        | NOAEL 6 mg/l           | 13 weeks              |
| Aluminum Oxide (non-fibrous)            | Inhalation | pneumoconiosis         | Some positive data exist, but the data are not sufficient for classification | Human      | NOAEL Not available    | occupational exposure |
| Aluminum Oxide (non-fibrous)            | Inhalation | pulmonary fibrosis     | Not classified                                                               | Human      | NOAEL Not available    | occupational exposure |
| Filler                                  | Inhalation | respiratory system     | Not classified                                                               | Human      | NOAEL Not available    | occupational exposure |
| Filler                                  | Inhalation | silicosis              | Not classified                                                               | Human      | NOAEL Not available    | occupational exposure |
| Glycerol                                | Inhalation | respiratory system     | Not classified                                                               | Rat        | NOAEL 3.91 mg/l        | 14 days               |
| Glycerol                                | Inhalation | heart                  | Not classified                                                               | Rat        | NOAEL 3.91 mg/l        | 14 days               |
| Glycerol                                | Inhalation | liver                  | Not classified                                                               | Rat        | NOAEL 3.91 mg/l        | 14 days               |
| Glycerol                                | Inhalation | kidney and/or bladder  | Not classified                                                               | Rat        | NOAEL 3.91 mg/l        | 14 days               |
| Glycerol                                | Ingestion  | endocrine system       | Not classified                                                               | Rat        | NOAEL 10,000 mg/kg/day | 2 years               |
| Glycerol                                | Ingestion  | hematopoietic system   | Not classified                                                               | Rat        | NOAEL 10,000 mg/kg/day | 2 years               |
| Glycerol                                | Ingestion  | liver                  | Not classified                                                               | Rat        | NOAEL 10,000 mg/kg/day | 2 years               |
| Glycerol                                | Ingestion  | kidney and/or bladder  | Not classified                                                               | Rat        | NOAEL 10,000 mg/kg/day | 2 years               |
| White mineral oil (petroleum)           | Ingestion  | hematopoietic system   | Not classified                                                               | Rat        | NOAEL 1,381 mg/kg/day  | 90 days               |
| White mineral oil (petroleum)           | Ingestion  | liver                  | Not classified                                                               | Rat        | NOAEL 1,336 mg/kg/day  | 90 days               |
| White mineral oil (petroleum)           | Ingestion  | immune system          | Not classified                                                               | Rat        | NOAEL 1,336 mg/kg/day  | 90 days               |
| Morpholine                              | Dermal     | liver                  | Some positive data exist, but the data are not sufficient for classification | Guinea pig | LOAEL 900 mg/kg/day    | 13 days               |
| Morpholine                              | Dermal     | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Guinea pig | LOAEL 900 mg/kg/day    | 13 days               |
| Morpholine                              | Dermal     | hematopoietic system   | Not classified                                                               | Guinea pig | NOAEL 900 mg/kg/day    | 13 days               |
| Morpholine                              | Inhalation | eyes                   | Causes damage to organs through prolonged or repeated exposure               | Human      | NOAEL Not available    | occupational exposure |
| Morpholine                              | Inhalation | pulmonary fibrosis     | May cause damage to organs though prolonged or repeated exposure             | Rat        | NOAEL 0.09 mg/l        | 13 weeks              |
| Morpholine                              | Inhalation | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Rat        | LOAEL 64 mg/l          | 5 days                |
| Morpholine                              | Inhalation | liver                  | Not classified                                                               | Rat        | LOAEL 64 mg/l          | 5 days                |
| Morpholine                              | Inhalation | heart                  | Not classified                                                               | Rat        | NOAEL 0.9 mg/l         | 13 weeks              |
| Morpholine                              | Inhalation | endocrine system       | Not classified                                                               | Rat        | NOAEL 0.9 mg/l         | 13 weeks              |
| Morpholine                              | Inhalation | gastrointestinal tract | Not classified                                                               | Rat        | NOAEL 0.53 mg/l        | 104 weeks             |
| Morpholine                              | Inhalation | nervous system         | Not classified                                                               | Rat        | NOAEL 0.53 mg/l        | 104 weeks             |

|            |           |                       |                                                                              |     |                     |         |
|------------|-----------|-----------------------|------------------------------------------------------------------------------|-----|---------------------|---------|
| Morpholine | Ingestion | kidney and/or bladder | May cause damage to organs though prolonged or repeated exposure             | Rat | LOAEL 160 mg/kg/day | 30 days |
| Morpholine | Ingestion | liver                 | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 160 mg/kg/day | 30 days |
| Morpholine | Ingestion | respiratory system    | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 160 mg/kg/day | 30 days |
| Morpholine | Ingestion | hematopoietic system  | Not classified                                                               | Rat | NOAEL 800 mg/kg/day | 30 days |
| Morpholine | Ingestion | endocrine system      | Not classified                                                               | Rat | NOAEL 323 mg/kg/day | 4 weeks |

### Aspiration Hazard

| Name                                        | Value             |
|---------------------------------------------|-------------------|
| Naphtha (petroleum), hydrotreated heavy     | Aspiration hazard |
| Distillates (petroleum), acid-treated light | Aspiration hazard |
| White mineral oil (petroleum)               | 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:

Not acutely toxic to aquatic life by GHS criteria.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material                                    | CAS Nbr    | Organism      | Type                                                  | Exposure | Test endpoint | Test result |
|---------------------------------------------|------------|---------------|-------------------------------------------------------|----------|---------------|-------------|
| Distillates (petroleum), acid-treated light | 64742-14-9 | N/A           | Data not available or insufficient for classification | N/A      | N/A           | n/a         |
| Naphtha (petroleum), hydrotreated heavy     | 64742-48-9 | Green algae   | Experimental                                          | 72 hours | EL50          | >1,000 mg/l |
| Naphtha (petroleum), hydrotreated heavy     | 64742-48-9 | Rainbow trout | Experimental                                          | 96 hours | LL50          | >1,000 mg/l |
| Naphtha (petroleum), hydrotreated heavy     | 64742-48-9 | Water flea    | Experimental                                          | 48 hours | EL50          | >1,000 mg/l |
| Naphtha (petroleum), hydrotreated heavy     | 64742-48-9 | Green algae   | Experimental                                          | 72 hours | NOEL          | 100 mg/l    |
| Aluminum Oxide (non-fibrous)                | 1344-28-1  | N/A           | Experimental                                          | 96 hours | LC50          | >100 mg/l   |
| Aluminum Oxide (non-fibrous)                | 1344-28-1  | Green algae   | Experimental                                          | 72 hours | EC50          | >100 mg/l   |

## Finesse-it Paste Glaze

|                               |              |                   |                    |            |       |                          |
|-------------------------------|--------------|-------------------|--------------------|------------|-------|--------------------------|
| Aluminum Oxide (non-fibrous)  | 1344-28-1    | Water flea        | Experimental       | 48 hours   | LC50  | >100 mg/l                |
| Aluminum Oxide (non-fibrous)  | 1344-28-1    | Green algae       | Experimental       | 72 hours   | NOEC  | >100 mg/l                |
| Glycerol                      | 56-81-5      | Rainbow trout     | Experimental       | 96 hours   | LC50  | 54,000 mg/l              |
| Glycerol                      | 56-81-5      | Water flea        | Experimental       | 48 hours   | LC50  | 1,955 mg/l               |
| Glycerol                      | 56-81-5      | Bacteria          | Experimental       | 16 hours   | NOEC  | 10,000 mg/l              |
| Filler                        | Trade Secret | Green algae       | Analogous Compound | 72 hours   | ErC50 | >173.1 mg/l              |
| Filler                        | Trade Secret | Sediment organism | Analogous Compound | 96 hours   | EC50  | 8,500 mg/kg (Dry Weight) |
| Filler                        | Trade Secret | Water flea        | Analogous Compound | 24 hours   | EL50  | >10,000 mg/l             |
| Filler                        | Trade Secret | Zebra Fish        | Analogous Compound | 96 hours   | LL50  | >10,000 mg/l             |
| Filler                        | Trade Secret | Green algae       | Analogous Compound | 72 hours   | NOEC  | 173.1 mg/l               |
| Filler                        | Trade Secret | Water flea        | Analogous Compound | 21 days    | NOEC  | 68 mg/l                  |
| Filler                        | Trade Secret | Activated sludge  | Experimental       | 3 hours    | EC50  | >1,000 mg/l              |
| White mineral oil (petroleum) | 8042-47-5    | Water flea        | Analogous Compound | 48 hours   | EL50  | >100 mg/l                |
| White mineral oil (petroleum) | 8042-47-5    | Bluegill          | Experimental       | 96 hours   | LL50  | >100 mg/l                |
| White mineral oil (petroleum) | 8042-47-5    | Green algae       | Analogous Compound | 72 hours   | NOEL  | 100 mg/l                 |
| White mineral oil (petroleum) | 8042-47-5    | Water flea        | Analogous Compound | 21 days    | NOEL  | >100 mg/l                |
| Morpholine                    | 110-91-8     | Activated sludge  | Experimental       | 30 minutes | EC20  | >1,000 mg/l              |
| Morpholine                    | 110-91-8     | Fish              | Experimental       | 96 hours   | LC50  | 100 mg/l                 |
| Morpholine                    | 110-91-8     | Green algae       | Experimental       | 96 hours   | ErC50 | 28 mg/l                  |
| Morpholine                    | 110-91-8     | Rainbow trout     | Experimental       | 96 hours   | LC50  | 180 mg/l                 |
| Morpholine                    | 110-91-8     | Water flea        | Experimental       | 48 hours   | EC50  | 45 mg/l                  |
| Morpholine                    | 110-91-8     | Green algae       | Experimental       | 96 hours   | NOEC  | 10 mg/l                  |
| Morpholine                    | 110-91-8     | Water flea        | Experimental       | 21 days    | NOEC  | 5 mg/l                   |

## 12.2. Persistence and degradability

| Material                                    | CAS Nbr      | Test type                       | Duration | Study Type                     | Test result                      | Protocol                            |
|---------------------------------------------|--------------|---------------------------------|----------|--------------------------------|----------------------------------|-------------------------------------|
| Distillates (petroleum), acid-treated light | 64742-14-9   | Data not available-insufficient | N/A      | N/A                            | N/A                              | N/A                                 |
| Naphtha (petroleum), hydrotreated heavy     | 64742-48-9   | Experimental Biodegradation     | 28 days  | BOD                            | 80% %BOD/ThOD                    | OECD 301F - Manometric respirometry |
| Aluminum Oxide (non-fibrous)                | 1344-28-1    | Data not available-insufficient | N/A      | N/A                            | N/A                              | N/A                                 |
| Glycerol                                    | 56-81-5      | Experimental Biodegradation     | 14 days  | BOD                            | 63 %BOD/ThOD                     | OECD 301C - MITI test (I)           |
| Filler                                      | Trade Secret | Data not available-insufficient | N/A      | N/A                            | N/A                              | N/A                                 |
| White mineral oil (petroleum)               | 8042-47-5    | Experimental Biodegradation     | 28 days  | CO2 evolution                  | 0 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2   |
| Morpholine                                  | 110-91-8     | Experimental Biodegradation     | 28 days  | Dissolv. Organic Carbon Deplet | 93 %removal of DOC               | OECD 301E - Modif. OECD Screen      |
| Morpholine                                  | 110-91-8     | Experimental Biodegradation     | 31 days  | Dissolv. Organic Carbon Deplet | 98 %removal of DOC               | OECD 302B Zahn-Wellens/EVPA         |

## 12.3 : Bioaccumulative potential

| Material                                    | CAS Nbr      | Test type                                             | Duration | Study Type             | Test result | Protocol                       |
|---------------------------------------------|--------------|-------------------------------------------------------|----------|------------------------|-------------|--------------------------------|
| Distillates (petroleum), acid-treated light | 64742-14-9   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Naphtha (petroleum), hydrotreated heavy     | 64742-48-9   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Aluminum Oxide (non-fibrous)                | 1344-28-1    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Glycerol                                    | 56-81-5      | Experimental Bioconcentration                         |          | Log Kow                | -1.75       | similar to OECD 107            |
| Filler                                      | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| White mineral oil (petroleum)               | 8042-47-5    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Morpholine                                  | 110-91-8     | Experimental BCF - Fish                               | 42 days  | Bioaccumulation factor | <2.8        | OECD305-Bioconcentration       |
| Morpholine                                  | 110-91-8     | Experimental Bioconcentration                         |          | Log Kow                | -2.55       | OECD 107 log Kow shke flsk mtd |

#### 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. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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

Not hazardous for transportation.

#### Air Transport (IATA) Regulations

UN No Not applicable

Proper Shipping Name Not applicable

Hazard Class/Division Not applicable

Subsidiary Risk Not applicable

Other Dangerous Goods Descriptions: None assigned.

Packing Group: Not applicable

#### Marine Transport (IMDG)

UN No Not applicable

**Proper Shipping Name** Not applicable  
**Hazard Class/Division** Not applicable  
**Subsidiary Risk** Not applicable  
**Other Dangerous Goods Descriptions:** None assigned.

**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.

#### Applicable Environmental, Health and Safety Regulations

Not applicable

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  
Morpholine

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 Non Hazardous as per MSIHC Rules, 1989.

## SECTION 16: Other information

#### NFPA Hazard Classification

**Health:** 1    **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.

#### Revision information:

No revision information

**DISCLAIMER:** The information in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into India, you are responsible to comply with all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

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