



## Material Safety Data Sheet

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**PRODUCT NAME:** 3M Vehicle Appearance & Nascar Promotion  
**MANUFACTURER:** 3M  
**DIVISION:** 3M Australia  
Automotive Aftermarket  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

**EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)**

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**This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:**

24-2116-2, 22-5036-3, 24-2283-0, 29-7566-2

### Revision Changes:

Section 16: Disclaimer (first paragraph) information was modified.  
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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Perfect-It™ Ultrafine Machine Polish, PN 06068 06069 06073 06074, 39062

#### Product Identification Numbers

LB-K100-0409-7, 60-4550-3493-8, 60-4550-3495-3, 60-4550-5231-0, 60-4550-5232-8, 60-4550-5233-6, 60-4550-5234-4

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

##### Recommended use

Automotive

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Automotive Aftermarket                  |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable.

**2.3. Hazards not otherwise classified**

None.

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

| <b>Ingredient</b>                                      | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|--|-------------------|------------------------|
| Water  | 7732-18-5         | 40 - 70 Trade Secret * |
| Hydrotreated Light Petroleum Distillates               | 64742-47-8        | 10 - 30 Trade Secret * |
| Dodecamethylcyclhexasiloxane                           | 540-97-6          | 7 - 15 Trade Secret *  |
| Aluminum Oxide   | 1344-28-1         | 3 - 8 Trade Secret *   |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | 64741-88-4        | 1 - 5 Trade Secret *   |
| Mineral Oil  | 64741-89-5        | < 2 Trade Secret *     |
| Formaldehyde   | 50-00-0           | < 0.05 Trade Secret *  |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**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:**

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

**If Swallowed:**

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Formaldehyde  
Carbon monoxide  
Carbon dioxide

**Condition**

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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

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

**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. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Keep from freezing. Store away from acids. Store away from oxidizing 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                         | C.A.S. No. | Agency | Limit type   | Additional Comments  |
|------------------------------------|------------|--------|--|--|
| Aluminum, insoluble compounds      | 1344-28-1  | ACGIH  | TWA(respirable fraction):1 mg/m3                             | A4: Not class. as human carcin                             |
| Aluminum Oxide                     | 1344-28-1  | OSHA   | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 |  |
| Aluminum Oxide                     | 1344-28-1  | CMRG   | TWA:1 fiber/cc   |  |
| Formaldehyde                       | 50-00-0    | CMRG   | TWA:0.5 ppm  |  |
| Formaldehyde                       | 50-00-0    | ACGIH  | CEIL:0.3 ppm   | A2: Suspected human carcin., Dermal/Respiratory Sensitizer |
| Formaldehyde                       | 50-00-0    | OSHA   | TWA:0.75 ppm;STEL:2 ppm                                      | 29 CFR 1910.1048   |
| Mineral oils (untreated and mildly | 64741-88-4 | ACGIH  | Limit value not established:                                 | A2: Suspected human  |

|  |            |       |  |   |
|--|------------|-------|--|---|
| treated)   |            |       |  | carcin., Cntrl all exposr-low as possib                     |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | 64741-88-4 | CMRG  | TWA:5 mg/m3  |   |
| Paraffin oil   | 64741-88-4 | OSHA  | TWA(as mist):5 mg/m3                                   |   |
| PETROLEUM DISTILLATES                                  | 64741-88-4 | OSHA  | TWA:2000 mg/m3(500 ppm)                                |   |
| MINERAL OILS, HIGHLY-REFINED OILS                      | 64741-88-4 | ACGIH | TWA(inhalable fraction):5 mg/m3                        | A4: Not class. as human carcin                              |
| Mineral oils (untreated and mildly treated)            | 64741-89-5 | ACGIH | Limit value not established:                           | A2: Suspected human carcin., Cntrl all exposr-low as possib |
| Paraffin oil   | 64741-89-5 | OSHA  | TWA(as mist):5 mg/m3                                   |   |
| MINERAL OILS, HIGHLY-REFINED OILS                      | 64741-89-5 | ACGIH | TWA(inhalable fraction):5 mg/m3                        | A4: Not class. as human carcin                              |
| Hydrotreated Light Petroleum Distillates               | 64742-47-8 | CMRG  | TWA:165 ppm  |   |
| Kerosine (petroleum)                                   | 64742-47-8 | ACGIH | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3 | A3: Confirmed animal carcin., Skin Notation                 |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining. 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/vapors/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.

Gloves made from the following material(s) are recommended: Neoprene

#### 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 vapors and particulates

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>General Physical Form:</b>                  | Liquid  |
| <b>Odor, Color, Grade:</b>                     | Blue liquid. solvent odor                                       |
| <b>Odor threshold</b>                          | <i>No Data Available</i>  |
| <b>pH</b>                                      | 7.5 - 8.5   |
| <b>Melting point</b>                           | <i>Not Applicable</i>   |
| <b>Boiling Point</b>                           | 212 °F  |
| <b>Flash Point</b>                             | > 230 °F [ <i>Test Method:</i> Closed Cup]                      |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>  |
| <b>Flammability (solid, gas)</b>               | Not Applicable  |
| <b>Flammable Limits(LEL)</b>                   | <i>Not Applicable</i>   |
| <b>Flammable Limits(UEL)</b>                   | <i>Not Applicable</i>   |
| <b>Vapor Pressure</b>                          | <i>Not Applicable</i>   |
| <b>Vapor Density</b>                           | 4.5 [ <i>Ref Std:</i> AIR=1]                                    |
| <b>Density</b>                                 | 0.911 - 1.007 g/ml  |
| <b>Specific Gravity</b>                        | 0.911 - 1.007 [ <i>Ref Std:</i> WATER=1]                        |
| <b>Solubility in Water</b>                     | Appreciable   |
| <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>Not Applicable</i>   |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>  |
| <b>Hazardous Air Pollutants</b>                | 0.002 lb HAPS/lb solids [ <i>Test Method:</i> Calculated]       |
| <b>Molecular weight</b>                        | <i>No Data Available</i>  |
| <b>Volatile Organic Compounds</b>              | 1 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1]       |
| <b>Volatile Organic Compounds</b>              | 0.1 % weight [ <i>Test Method:</i> calculated per CARB title 2] |
| <b>Percent volatile</b>                        | 74.2 % weight [ <i>Test Method:</i> Estimated]                  |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | 1 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1]       |

## 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 polymerization will not occur.

### 10.4. Conditions to avoid

Sparks and/or flames

### 10.5. Incompatible materials

Strong acids

Strong oxidizing agents

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

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 labeling, 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:

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

##### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### Carcinogenicity:

| <u>Ingredient</u>                                    | <u>CAS No.</u> | <u>Class Description</u>       | <u>Regulation</u>                           |
|--|----------------|--------------------------------|---|
| Generic: Mineral oils (untreated and mildly treated) | 64741-88-4     | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Generic: Mineral oils (untreated and mildly treated) | 64741-88-4     | Known human carcinogen         | National Toxicology Program Carcinogens     |
| Generic: Mineral oils (untreated and mildly treated) | 64741-89-5     | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Generic: Mineral oils (untreated and mildly treated) | 64741-89-5     | Known human carcinogen         | National Toxicology Program Carcinogens     |
| Formaldehyde   | Trade Secret   | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Formaldehyde   | Trade Secret   | Known human carcinogen         | National Toxicology Program Carcinogens     |
| Formaldehyde   | Trade Secret   | Cancer hazard                  | OSHA Carcinogens                            |

#### 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

| <u>Name</u>                              | <u>Route</u>                   | <u>Species</u> | <u>Value</u>                                    |
|--|--------------------------------|----------------|---|
| Overall product                          | Dermal                         |                | No data available; calculated ATE > 5,000 mg/kg |
| Overall product                          | Ingestion                      |                | No data available; calculated ATE > 5,000 mg/kg |
| Hydrotreated Light Petroleum Distillates | Dermal                         | Rabbit         | LD50 > 3,160 mg/kg                              |
| Hydrotreated Light Petroleum Distillates | Inhalation-Dust/Mist (4 hours) | Rat            | LC50 > 3 mg/l                                   |



|  |                                |        |                                    |
|--|--------------------------------|--------|------------------------------------|
| Hydrotreated Light Petroleum Distillates               | Ingestion                      | Rat    | LD50 > 5,000 mg/kg                 |
| Dodecamethylcyclhexasiloxane                           | Dermal                         | Rat    | LD50 > 2,000 mg/kg                 |
| Dodecamethylcyclhexasiloxane                           | Ingestion                      | Rat    | LD50 > 50,000 mg/kg                |
| Aluminum Oxide   | Dermal                         |        | LD50 estimated to be > 5,000 mg/kg |
| Aluminum Oxide   | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 2.3 mg/l                    |
| Aluminum Oxide   | Ingestion                      | Rat    | LD50 > 5,000 mg/kg                 |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Dermal                         | Rabbit | LD50 > 2,000 mg/kg                 |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Ingestion                      | Rat    | LD50 > 5,000                       |
| Mineral Oil  | Dermal                         | Rabbit | LD50 > 5,000 mg/kg                 |
| Mineral Oil  | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 4 mg/l                      |
| Mineral Oil  | Ingestion                      | Rat    | LD50 > 5,000 mg/kg                 |
| Formaldehyde   | Dermal                         | Rabbit | LD50 270 mg/kg                     |
| Formaldehyde   | Inhalation-Gas (4 hours)       | Rat    | LC50 470 ppm                       |
| Formaldehyde   | Ingestion                      | Rat    | LD50 800 mg/kg                     |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name   | Species                 | Value                     |
|--|-------------------------|---------------------------|
| Hydrotreated Light Petroleum Distillates               | Rabbit                  | Mild irritant             |
| Dodecamethylcyclhexasiloxane                           | Rabbit                  | No significant irritation |
| Aluminum Oxide   | Rabbit                  | No significant irritation |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Rabbit                  | Minimal irritation        |
| Mineral Oil  | Rabbit                  | Minimal irritation        |
| Formaldehyde   | official classification | Corrosive                 |

#### Serious Eye Damage/Irritation

| Name   | Species                 | Value                     |
|--|-------------------------|---------------------------|
| Hydrotreated Light Petroleum Distillates               | Rabbit                  | Mild irritant             |
| Dodecamethylcyclhexasiloxane                           | Rabbit                  | No significant irritation |
| Aluminum Oxide   | Rabbit                  | No significant irritation |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Rabbit                  | Mild irritant             |
| Mineral Oil  | Rabbit                  | No significant irritation |
| Formaldehyde   | official classification | Corrosive                 |

#### Skin Sensitization

| Name   | Species    | Value           |
|--|------------|-----------------|
| Hydrotreated Light Petroleum Distillates               | Guinea pig | Not sensitizing |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Guinea pig | Not sensitizing |
| Mineral Oil  | Guinea pig | Not sensitizing |
| Formaldehyde   | Guinea pig | Sensitizing     |

#### Respiratory Sensitization

| Name         | Species | Value  |
|--------------|---------|--|
| Formaldehyde | Human   | Some positive data exist, but the data are not sufficient for classification |

**Germ Cell Mutagenicity**

| Name   | Route    | Value  |
|--|----------|--|
| Hydrotreated Light Petroleum Distillates               | In Vitro | Not mutagenic  |
| Aluminum Oxide   | In Vitro | Not mutagenic  |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Mineral Oil  | In vivo  | Not mutagenic  |
| Mineral Oil  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Formaldehyde   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Formaldehyde   | In vivo  | Mutagenic  |

**Carcinogenicity**

| Name   | Route         | Species          | Value  |
|--|---------------|------------------|--|
| Hydrotreated Light Petroleum Distillates               | Dermal        | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| Aluminum Oxide   | Inhalation    | Rat              | Not carcinogenic   |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Dermal        | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| Mineral Oil  | Dermal        | Mouse            | Some positive data exist, but the data are not sufficient for classification |
| Formaldehyde   | Not Specified | Human and animal | Carcinogenic   |

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

| Name                         | Route      | Value  | Species | Test Result           | Exposure Duration            |
|------------------------------|------------|--|---------|-----------------------|------------------------------|
| Dodecamethylcyclhexasiloxane | Ingestion  | Not toxic to female reproduction   | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| Dodecamethylcyclhexasiloxane | Ingestion  | Not toxic to male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 28 days                      |
| Dodecamethylcyclhexasiloxane | Ingestion  | Not toxic to development   | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| Formaldehyde                 | Ingestion  | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat     | NOAEL 100 mg/kg       | not applicable               |
| Formaldehyde                 | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification     | Rat     | NOAEL 10 ppm          | during gestation             |

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

| Name   | Route      | Target Organ(s)                   | Value  | Species               | Test Result         | Exposure Duration |
|--|------------|-----------------------------------|--|-----------------------|---------------------|-------------------|
| Hydrotreated Light Petroleum Distillates               | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal      | NOAEL Not available |                   |
| Hydrotreated Light Petroleum Distillates               | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                       | NOAEL Not available |                   |
| Hydrotreated Light Petroleum Distillates               | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgment | NOAEL Not available |                   |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal      | NOAEL Not available |                   |

|  |            |                                   |  |                        |                     |         |
|--|------------|-----------------------------------|--|------------------------|---------------------|---------|
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |         |
| Formaldehyde   | Inhalation | respiratory system                | Causes damage to organs  | Rat                    | LOAEL 128 ppm       | 6 hours |
| Formaldehyde   | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                  | NOAEL Not available |         |

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route      | Target Organ(s)   | Value  | Species | Test Result           | Exposure Duration     |
|--|------------|---|--|---------|-----------------------|-----------------------|
| Dodecamethylcyclohexasil oxane                         | Ingestion  | endocrine system   liver   respiratory system                                   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 1,000 mg/kg/day | 28 days               |
| Dodecamethylcyclohexasil oxane                         | Ingestion  | nervous system  | All data are negative  | Rat     | NOAEL 1,000 mg/kg/day | 28 days               |
| Aluminum Oxide   | Inhalation | pneumoconiosis   pulmonary fibrosis   | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available   | occupational exposure |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 0.21 mg/l       | 28 days               |
| Mineral Oil  | Dermal     | hematopoietic system   liver   kidney and/or bladder                            | All data are negative  | Rabbit  | NOAEL 5,000 mg/kg/day | 3 weeks               |
| Formaldehyde   | Dermal     | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Mouse   | NOAEL 80 mg/kg/day    | 60 weeks              |
| Formaldehyde   | Inhalation | respiratory system  | Causes damage to organs through prolonged or repeated exposure               | Rat     | NOAEL 0.3 ppm         | 28 months             |
| Formaldehyde   | Inhalation | liver   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 20 ppm          | 13 weeks              |
| Formaldehyde   | Inhalation | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Mouse   | NOAEL 15 ppm          | 3 weeks               |
| Formaldehyde   | Inhalation | nervous system  | Some positive data exist, but the data are not sufficient for classification | Mouse   | NOAEL 10 ppm          | 13 weeks              |
| Formaldehyde   | Inhalation | endocrine system   immune system   muscles   kidney and/or bladder              | All data are negative  | Rat     | NOAEL 15 ppm          | 28 months             |
| Formaldehyde   | Inhalation | eyes   vascular system  | All data are negative  | Rat     | NOAEL 14.3 ppm        | 2 years               |
| Formaldehyde   | Inhalation | heart   | All data are negative  | Mouse   | NOAEL 14.3 ppm        | 2 years               |
| Formaldehyde   | Ingestion  | liver   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 300 mg/kg/day   | 2 years               |
| Formaldehyde   | Ingestion  | immune system   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 20 mg/kg/day    | 4 weeks               |
| Formaldehyde   | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 15 mg/kg/day    | 24 months             |
| Formaldehyde   | Ingestion  | nervous system  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 109 mg/kg/day   | 2 years               |
| Formaldehyde   | Ingestion  | heart   endocrine system   hematopoietic system   respiratory system   vascular | All data are negative  | Rat     | NOAEL 300 mg/kg/day   | 2 years               |

|              |           |                       |                       |     |                     |         |
|--------------|-----------|-----------------------|-----------------------|-----|---------------------|---------|
|              |           | system                |                       |     |                     |         |
| Formaldehyde | Ingestion | skin   muscles   eyes | All data are negative | Rat | NOAEL 109 mg/kg/day | 2 years |

**Aspiration Hazard**

| Name   | Value             |
|--|-------------------|
| Hydrotreated Light Petroleum Distillates               | Aspiration hazard |
| Solvent-Refined Heavy Paraffinic Petroleum Distillates | Aspiration hazard |
| Mineral Oil  | 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****Ecotoxicological information**

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

**Chemical fate information**

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

**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**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| <u>Ingredient</u>               | <u>C.A.S. No</u> | <u>% by Wt</u>     |
|---------------------------------|------------------|--------------------|
| Aluminum Oxide                  | 1344-28-1        | Trade Secret 3 - 8 |
| Aluminum Oxide (ALUMINUM OXIDE) | 1344-28-1        | 3 - 8              |

(FIBROUS FORMS ONLY))

### 15.2. State Regulations

Contact 3M for more information.

#### California Proposition 65

| <u><b>Ingredient</b></u> | <u><b>C.A.S. No.</b></u> | <u><b>Classification</b></u> |
|--------------------------|--------------------------|------------------------------|
| Formaldehyde             | Trade Secret             | Carcinogen                   |

WARNING: This product contains a chemical known to the State of California to cause cancer.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## 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.

### HMIS Hazard Classification

**Health: 1 Flammability: 0 Physical Hazard: 0 Personal Protection: X** - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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## Safety Data Sheet

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|                        |           |                         |          |
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Perfect-It™ Machine Polish PN 06064, 06065, 06053, 39061, 06072, 6078

#### Product Identification Numbers

LB-K100-0410-4, 60-4550-3490-4, 60-4550-3491-2, 60-4550-3492-0, 60-4550-3639-6, 60-4550-3749-3, 60-4550-3751-9, 60-4550-5182-5, 60-4550-5183-3, 60-4550-5184-1, 60-4550-5185-8, XG-0038-1548-5

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

##### Recommended use

Automotive

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Automotive Aftermarket                  |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Flammable Liquid: Category 4.

Skin Sensitizer: Category 1.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

**Pictograms****Hazard Statements**

Combustible liquid.

May cause an allergic skin reaction.

**Precautionary Statements****General:**

Keep out of reach of children.

**Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves and eye/face protection.

Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

Store in a well-ventilated place. Keep cool.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

3% of the mixture consists of ingredients of unknown acute dermal toxicity.

20% of the mixture consists of ingredients of unknown acute inhalation toxicity.

## SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No. | % by Wt                |
|--|------------|------------------------|
| Water  | 7732-18-5  | 40 - 70 Trade Secret * |
| Distillates (Petroleum), Acid Treated, Light                     | 64742-14-9 | 10 - 30 Trade Secret * |
| Aluminum Oxide (non-fibrous)                                     | 1344-28-1  | 5 - 10 Trade Secret *  |
| Decamethylcyclopentasiloxane                                     | 541-02-6   | < 7 Trade Secret *     |
| Dodecamethylcyclohexasiloxane                                    | 540-97-6   | < 5 Trade Secret *     |
| Ethylene Oxide, Polymer with Ethylenediamine and Propylene Oxide | 26316-40-5 | < 1 Trade Secret *     |
| White mineral oil (Petroleum)                                    | 8042-47-5  | < 1 Trade Secret *     |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.



## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

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

**Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye Contact:**

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

**If Swallowed:**

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

**Substance**

Formaldehyde  
Carbon monoxide  
Carbon dioxide

**Condition**

During Combustion  
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

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

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

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. 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 closed container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing 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                        | C.A.S. No. | Agency | Limit type  | Additional Comments            |
|-----------------------------------|------------|--------|---|--------------------------------|
| Aluminum Oxide (non-fibrous)      | 1344-28-1  | CMRG   | TWA:1 fiber/cc  |                                |
| Aluminum Oxide (non-fibrous)      | 1344-28-1  | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup> |                                |
| Aluminum, insoluble compounds     | 1344-28-1  | ACGIH  | TWA(respirable fraction):1 mg/m <sup>3</sup>  | A4: Not class. as human carcin |
| Decamethylcyclopentasiloxane      | 541-02-6   | CMRG   | TWA:10 ppm  |                                |
| MINERAL OILS, HIGHLY-REFINED OILS | 8042-47-5  | ACGIH  | TWA(inhalable fraction):5 mg/m <sup>3</sup>   | A4: Not class. as human carcin |
| Paraffin oil                      | 8042-47-5  | OSHA   | TWA(as mist):5 mg/m <sup>3</sup>  |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining. 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/vapors/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.

Gloves made from the following material(s) are recommended: Neoprene

Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### 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 vapors and particulates

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>General Physical Form:</b>                  | Liquid   |
| <b>Specific Physical Form:</b>                 | Emulsion   |
| <b>Odor, Color, Grade:</b>                     | Petroleum distillate odor, grey viscous liquid   |
| <b>Odor threshold</b>                          | <i>No Data Available</i>   |
| <b>pH</b>                                      | 7.5 - 8.5  |
| <b>Melting point</b>                           | <i>No Data Available</i>   |
| <b>Boiling Point</b>                           | 375 °F   |
| <b>Flash Point</b>                             | 168 °F [ <i>Test Method:</i> Closed Cup]   |
| <b>Flammability (solid, gas)</b>               | Not Applicable   |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>   |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>   |
| <b>Vapor Pressure</b>                          | <i>No Data Available</i>   |
| <b>Vapor Density</b>                           | <i>No Data Available</i>   |
| <b>Density</b>                                 | 0.99 g/ml  |
| <b>Specific Gravity</b>                        | 0.99 [ <i>Ref Std:</i> WATER=1]  |
| <b>Solubility in Water</b>                     | Moderate   |
| <b>Solubility- non-water</b>                   | Slight (less than 10%)   |
| <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>Viscosity</b>                               | 18,000 - 23,000 centipoise [ <i>Test Method:</i> Tested per ASTM protocol] [ <i>Details:</i> Spindle #6 @ 10rpm] |

|   |   |
|---|---|
| <b>Hazardous Air Pollutants</b>           | 0.0007 lb HAPS/lb solids [ <i>Test Method</i> : Calculated]       |
| <b>Molecular weight</b>                   | <i>No Data Available</i>  |
| <b>Volatile Organic Compounds</b>         | 139 g/l [ <i>Test Method</i> : calculated SCAQMD rule 443.1]      |
| <b>Volatile Organic Compounds</b>         | 14.1 % weight [ <i>Test Method</i> : calculated per CARB title 2] |
| <b>VOC Less H2O &amp; Exempt Solvents</b> | 382 g/l [ <i>Test Method</i> : calculated SCAQMD rule 443.1]      |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| 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 labeling, 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. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness,

swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### 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                              | Inhalation-Dust/Mist(4 hr)     |         | No data available; calculated ATE > 12.5 mg/l   |
| Overall product                              | Ingestion                      |         | No data available; calculated ATE > 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                              |
| Decamethylcycllopentasiloxane                | Dermal                         | Rabbit  | LD50 > 15,000 mg/kg                             |
| Decamethylcycllopentasiloxane                | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 8.7 mg/l                                   |
| Decamethylcycllopentasiloxane                | Ingestion                      | Rat     | LD50 > 24,134 mg/kg                             |
| Dodecamethylcyclhexasiloxane                 | Dermal                         | Rat     | LD50 > 2,000 mg/kg                              |
| Dodecamethylcyclhexasiloxane                 | Ingestion                      | Rat     | LD50 > 50,000 mg/kg                             |
| White mineral oil (Petroleum)                | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                              |
| White mineral oil (Petroleum)                | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                              |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| Distillates (Petroleum), Acid Treated, Light | Professional judgement | Mild irritant             |
| Aluminum Oxide (non-fibrous)                 | Rabbit                 | No significant irritation |
| Dodecamethylcyclhexasiloxane                 | Rabbit                 | No significant irritation |
| White mineral oil (Petroleum)                | Rabbit                 | No significant irritation |

#### Serious Eye Damage/Irritation

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| Distillates (Petroleum), Acid Treated, Light | Professional judgement | Mild irritant             |
| Aluminum Oxide (non-fibrous)                 | Rabbit                 | No significant irritation |
| Dodecamethylcyclhexasiloxane                 | Rabbit                 | No significant irritation |
| White mineral oil (Petroleum)                | Rabbit                 | Mild irritant             |

#### Skin Sensitization

| Name   | Species    | Value           |
|--|------------|-----------------|
| Distillates (Petroleum), Acid Treated, Light | Guinea pig | Not sensitizing |
| White mineral oil (Petroleum)                | Guinea pig | Not sensitizing |

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

| Name   | Route    | Value         |
|--|----------|---------------|
| Distillates (Petroleum), Acid Treated, Light | In Vitro | Not mutagenic |
| Aluminum Oxide (non-fibrous)                 | In Vitro | Not mutagenic |
| White mineral oil (Petroleum)                | In Vitro | Not mutagenic |

**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   |
| White mineral oil (Petroleum)                | Dermal     | Mouse                   | Not carcinogenic   |
| White mineral oil (Petroleum)                | Inhalation | Multiple animal species | Not carcinogenic   |

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

| Name                          | Route     | Value                            | Species | Test Result           | Exposure Duration            |
|-------------------------------|-----------|----------------------------------|---------|-----------------------|------------------------------|
| Dodecamethylcyclohexasiloxane | Ingestion | Not toxic to female reproduction | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| Dodecamethylcyclohexasiloxane | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 28 days                      |
| Dodecamethylcyclohexasiloxane | Ingestion | Not toxic to development         | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| White mineral oil (Petroleum) | Ingestion | Not toxic to female reproduction | Rat     | NOAEL 4,350 mg/kg/day | 13 weeks                     |
| White mineral oil (Petroleum) | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL 4,350 mg/kg/day | 13 weeks                     |
| White mineral oil (Petroleum) | Ingestion | Not toxic to development         | Rat     | NOAEL 4,350 mg/kg/day | during gestation             |

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

| Name   | Route      | Target Organ(s)                   | Value  | Species               | Test Result         | Exposure Duration |
|--|------------|-----------------------------------|--|-----------------------|---------------------|-------------------|
| 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 judgment | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                         | Route      | Target Organ(s)                     | Value  | Species | Test Result         | Exposure Duration     |
|------------------------------|------------|-------------------------------------|--|---------|---------------------|-----------------------|
| Aluminum Oxide (non-fibrous) | Inhalation | pneumoconiosis   pulmonary fibrosis | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available | occupational exposure |

|                                |           |   |  |     |                       |         |
|--------------------------------|-----------|---|--|-----|-----------------------|---------|
| Dodecamethylcyclohexasil oxane | Ingestion | endocrine system   liver   respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Dodecamethylcyclohexasil oxane | Ingestion | nervous system                                | All data are negative  | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| White mineral oil (Petroleum)  | Ingestion | hematopoietic system                          | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,381 mg/kg/day | 90 days |
| White mineral oil (Petroleum)  | Ingestion | liver   immune system                         | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,336 mg/kg/day | 90 days |

**Aspiration Hazard**

| Name   | Value             |
|--|-------------------|
| 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****Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations****13.1. Disposal methods**

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

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - Yes   Pressure Hazard - No   Reactivity Hazard - No   Immediate Hazard - Yes   Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

#### California Proposition 65

| <u><b>Ingredient</b></u> | <u><b>C.A.S. No.</b></u> | <u><b>Classification</b></u> |
|--------------------------|--------------------------|------------------------------|
| Titanium Dioxide         | 13463-67-7               | Carcinogen                   |

WARNING: This product contains a chemical known to the State of California to cause cancer.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 2 **Flammability:** 2 **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.

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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 11/14/16  | <b>Supersedes Date:</b> | 05/14/15 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Perfect-It(TM) Rubbing Compound PN 06085, 06086, 06087, 39060, 6070

#### Product Identification Numbers

LB-K100-0674-3, LB-K100-0309-2, LB-K100-1314-4, 60-4550-3485-4, 60-4550-3486-2, 60-4550-3487-0, 60-4550-3488-8, 60-4550-3638-8, 60-4550-3747-7, 60-4550-3748-5, 60-4550-5178-3, 60-4550-5180-9, 60-4550-5181-7, 60-4550-5256-7, XG-0038-1447-0

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

##### Recommended use

Automotive

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Automotive Aftermarket                  |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1.

Carcinogenicity: Category 2.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Warning

**Symbols**

Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Suspected of causing cancer.

**Precautionary Statements****General:**

Keep out of reach of children.

**Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

23% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

| Ingredient                   | C.A.S. No. | % by Wt                |
|------------------------------|------------|------------------------|
| Water                        | 7732-18-5  | 40 - 70 Trade Secret * |
| Aluminum Oxide (non-fibrous) | 1344-28-1  | 10 - 30 Trade Secret * |
| Stoddard Solvent             | 8052-41-3  | 8 - 15 Trade Secret *  |

|  |            |                          |
|--|------------|--------------------------|
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | 2 - 7 Trade Secret *     |
| Castor Oil                               | 8001-79-4  | 1 - 5 Trade Secret *     |
| White Mineral Oil (Petroleum)            | 8042-47-5  | 0.5 - 1.5 Trade Secret * |
| Ethylbenzene                             | 100-41-4   | < 0.5 Trade Secret *     |
| Naphthalene                              | 91-20-3    | < 0.1 Trade Secret *     |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

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

#### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye Contact:

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

#### If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Material will not burn. 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

Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen

#### Condition

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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

## 6.2. Environmental precautions

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

## 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. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (gloves, respirators, etc.) as required.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store away from areas where product may come into contact with food or pharmaceuticals.

# 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                        | C.A.S. No. | Agency | Limit type   | Additional Comments                |
|-----------------------------------|------------|--------|--|------------------------------------|
| Ethylbenzene                      | 100-41-4   | ACGIH  | TWA:20 ppm   | A3: Confirmed animal carcin.       |
| Ethylbenzene                      | 100-41-4   | OSHA   | TWA:435 mg/m3(100 ppm)                                       |                                    |
| Aluminum Oxide (non-fibrous)      | 1344-28-1  | OSHA   | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 |                                    |
| Aluminum, insoluble compounds     | 1344-28-1  | ACGIH  | TWA(respirable fraction):1 mg/m3                             | A4: Not class. as human carcin     |
| Kerosine (petroleum)              | 64742-47-8 | ACGIH  | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3       | A3: Confirmed animal carcin., SKIN |
| MINERAL OILS, HIGHLY-REFINED OILS | 8042-47-5  | ACGIH  | TWA(inhalable fraction):5 mg/m3                              | A4: Not class. as human carcin     |
| Paraffin oil                      | 8042-47-5  | OSHA   | TWA(as mist):5 mg/m3   |                                    |
| Stoddard Solvent                  | 8052-41-3  | ACGIH  | TWA:100 ppm  |                                    |
| Stoddard Solvent                  | 8052-41-3  | OSHA   | TWA:2900 mg/m3(500 ppm)                                      |                                    |
| Naphthalene                       | 91-20-3    | ACGIH  | TWA:10 ppm   | A3: Confirmed animal carcin., SKIN |

|             |         |      |                      |  |
|-------------|---------|------|----------------------|--|
| Naphthalene | 91-20-3 | OSHA | TWA:50 mg/m3(10 ppm) |  |
|-------------|---------|------|----------------------|--|

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

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/vapors/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.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

#### 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 vapors and particulates

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>General Physical Form:</b>    | Liquid                                |
| <b>Odor, Color, Grade:</b>       | Creamy off-white liquid; Solvent odor |
| <b>Odor threshold</b>            | <i>No Data Available</i>              |
| <b>pH</b>                        | 7.5 - 8.5                             |
| <b>Boiling Point</b>             | 100 °C                                |
| <b>Flash Point</b>               | No flash point                        |
| <b>Evaporation rate</b>          | <i>No Data Available</i>              |
| <b>Flammability (solid, gas)</b> | Not Applicable                        |
| <b>Flammable Limits(LEL)</b>     | <i>No Data Available</i>              |
| <b>Flammable Limits(UEL)</b>     | <i>No Data Available</i>              |

|   |  |
|---|--|
| Vapor Pressure                          | 18 mmHg [ <i>@ 20 °C</i> ]   |
| Density                                 | 1.06 - 1.08 g/ml   |
| Specific Gravity                        | 1.06 - 1.08 [ <i>Ref Std: WATER=1</i> ]                                      |
| Solubility in Water                     | Moderate   |
| Solubility- non-water                   | <i>No Data Available</i>   |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i>   |
| Autoignition temperature                | <i>No Data Available</i>   |
| Decomposition temperature               | <i>No Data Available</i>   |
| Viscosity                               | 30,000 - 38,000 centipoise [ <i>@ 77 °F</i> ] [ <i>Details: #6 Spindle</i> ] |
| Hazardous Air Pollutants                | 0.007 lb HAPS/lb solids [ <i>Test Method: Calculated</i> ]                   |
| Molecular weight                        | <i>No Data Available</i>   |
| Volatile Organic Compounds              | 16.1 % weight [ <i>Test Method: calculated per CARB title 2</i> ]            |
| Volatile Organic Compounds              | 176 g/l [ <i>Test Method: calculated SCAQMD rule 443.1</i> ]                 |
| Percent volatile                        | 80.6 % weight  |
| VOC Less H2O & Exempt Solvents          | 563 g/l [ <i>Test Method: calculated SCAQMD rule 443.1</i> ]                 |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

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 labeling, 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.

May cause additional health effects (see below).

**Skin Contact:**

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

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye Contact:**

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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.

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

| <b>Ingredient</b> | <b>CAS No.</b> | <b>Class Description</b>      | <b>Regulation</b>                           |
|-------------------|----------------|-------------------------------|---|
| Ethylbenzene      | 100-41-4       | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Naphthalene       | 91-20-3        | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Naphthalene       | 91-20-3        | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |

**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**

| <b>Name</b>                              | <b>Route</b>                   | <b>Species</b> | <b>Value</b>                                    |
|--|--------------------------------|----------------|---|
| Overall product                          | Dermal                         |                | No data available; calculated ATE > 5,000 mg/kg |
| Overall product                          | Inhalation-Vapor(4 hr)         |                | No data available; calculated ATE > 50 mg/l     |
| Overall product                          | Ingestion                      |                | No data available; calculated ATE > 5,000 mg/kg |
| Stoddard Solvent                         | Inhalation-Vapor               |                | LC50 estimated to be 20 - 50 mg/l               |
| Stoddard Solvent                         | Dermal                         | Rabbit         | LD50 > 3,000 mg/kg                              |
| Stoddard Solvent                         | 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                              |
| Hydrotreated Light Petroleum Distillates | Dermal                         | Rabbit         | LD50 > 3,160 mg/kg                              |
| Hydrotreated Light Petroleum Distillates | Inhalation-Dust/Mist (4 hours) | Rat            | LC50 > 3 mg/l                                   |
| Hydrotreated Light Petroleum Distillates | Ingestion                      | Rat            | LD50 > 5,000 mg/kg                              |

|                               |                            |        |  |
|-------------------------------|----------------------------|--------|--|
| Castor Oil                    | Dermal                     |        | LD50 estimated to be > 5,000             |
| Castor Oil                    | Ingestion                  |        | LD50 estimated to be > 5,000             |
| White Mineral Oil (Petroleum) | Dermal                     | Rabbit | LD50 > 2,000 mg/kg                       |
| White Mineral Oil (Petroleum) | Ingestion                  | Rat    | LD50 > 5,000 mg/kg                       |
| Ethylbenzene                  | Dermal                     | Rabbit | LD50 15,433 mg/kg                        |
| Ethylbenzene                  | Inhalation-Vapor (4 hours) | Rat    | LC50 17.4 mg/l                           |
| Ethylbenzene                  | Ingestion                  | Rat    | LD50 4,769 mg/kg                         |
| Naphthalene                   | Dermal                     | Human  | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Naphthalene                   | Inhalation-Vapor           | Human  | LC50 estimated to be 20 - 50 mg/l        |
| Naphthalene                   | Ingestion                  | Human  | LD50 estimated to be 300 - 2,000 mg/kg   |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                     | Species | Value                     |
|--|---------|---------------------------|
| Stoddard Solvent                         | Rabbit  | Irritant                  |
| Aluminum Oxide (non-fibrous)             | Rabbit  | No significant irritation |
| Hydrotreated Light Petroleum Distillates | Rabbit  | Mild irritant             |
| Castor Oil                               | Human   | Minimal irritation        |
| White Mineral Oil (Petroleum)            | Rabbit  | No significant irritation |
| Ethylbenzene                             | Rabbit  | Mild irritant             |
| Naphthalene                              | Rabbit  | Minimal irritation        |

### Serious Eye Damage/Irritation

| Name                                     | Species | Value                     |
|--|---------|---------------------------|
| Stoddard Solvent                         | Rabbit  | No significant irritation |
| Aluminum Oxide (non-fibrous)             | Rabbit  | No significant irritation |
| Hydrotreated Light Petroleum Distillates | Rabbit  | Mild irritant             |
| Castor Oil                               | Rabbit  | Mild irritant             |
| White Mineral Oil (Petroleum)            | Rabbit  | Mild irritant             |
| Ethylbenzene                             | Rabbit  | Moderate irritant         |
| Naphthalene                              | Rabbit  | No significant irritation |

### Skin Sensitization

| Name                                     | Species    | Value  |
|--|------------|--|
| Stoddard Solvent                         | Guinea pig | Not sensitizing  |
| Hydrotreated Light Petroleum Distillates | Guinea pig | Not sensitizing  |
| Castor Oil                               | Human      | Some positive data exist, but the data are not sufficient for classification |
| White Mineral Oil (Petroleum)            | Guinea pig | Not sensitizing  |
| Ethylbenzene                             | Human      | Not sensitizing  |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name                                     | Route    | Value  |
|--|----------|--|
| Stoddard Solvent                         | In vivo  | Not mutagenic  |
| Stoddard Solvent                         | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Aluminum Oxide (non-fibrous)             | In Vitro | Not mutagenic  |
| Hydrotreated Light Petroleum Distillates | In Vitro | Not mutagenic  |
| Castor Oil                               | In Vitro | Not mutagenic  |
| Castor Oil                               | In vivo  | Not mutagenic  |



|                               |          |  |
|-------------------------------|----------|--|
| White Mineral Oil (Petroleum) | In Vitro | Not mutagenic  |
| Ethylbenzene                  | In vivo  | Not mutagenic  |
| Ethylbenzene                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                     | Route      | Species                 | Value  |
|--|------------|-------------------------|--|
| Stoddard Solvent                         | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Stoddard Solvent                         | Inhalation | Human and animal        | Some positive data exist, but the data are not sufficient for classification |
| Aluminum Oxide (non-fibrous)             | Inhalation | Rat                     | Not carcinogenic   |
| Hydrotreated Light Petroleum Distillates | Dermal     | 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   |
| Ethylbenzene                             | Inhalation | Multiple animal species | Carcinogenic   |
| Naphthalene                              | Inhalation | Multiple animal species | Carcinogenic   |

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

| Name                          | Route      | Value  | Species | Test Result           | Exposure Duration            |
|-------------------------------|------------|--|---------|-----------------------|------------------------------|
| Stoddard Solvent              | Inhalation | Not toxic to development   | Rat     | NOAEL 2.4 mg/l        | during organogenesis         |
| White Mineral Oil (Petroleum) | Ingestion  | Not toxic to female reproduction   | Rat     | NOAEL 4,350 mg/kg/day | 13 weeks                     |
| White Mineral Oil (Petroleum) | Ingestion  | Not toxic to male reproduction   | Rat     | NOAEL 4,350 mg/kg/day | 13 weeks                     |
| White Mineral Oil (Petroleum) | Ingestion  | Not toxic to development   | Rat     | NOAEL 4,350 mg/kg/day | during gestation             |
| Ethylbenzene                  | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 4.3 mg/l        | premating & during gestation |

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

| Name                                     | Route      | Target Organ(s)                   | Value  | Species                | Test Result         | Exposure Duration |
|--|------------|-----------------------------------|--|------------------------|---------------------|-------------------|
| Stoddard Solvent                         | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal       | NOAEL Not available |                   |
| Stoddard Solvent                         | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                   |
| Stoddard Solvent                         | Inhalation | nervous system                    | Some positive data exist, but the data are not sufficient for classification | Dog                    | NOAEL 6.5 mg/l      | 4 hours           |
| Stoddard Solvent                         | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                   |
| Hydrotreated Light Petroleum Distillates | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal       | NOAEL Not available |                   |

|  |            |                                   |  |                        |                     |                        |
|--|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| Hydrotreated Light Petroleum Distillates | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                        |
| Hydrotreated Light Petroleum Distillates | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| Ethylbenzene                             | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available |                        |
| Ethylbenzene                             | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal       | NOAEL Not available |                        |
| Ethylbenzene                             | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| Naphthalene                              | Ingestion  | blood                             | Causes damage to organs  | Human                  | NOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name                          | Route      | Target Organ(s)   | Value  | Species                 | Test Result            | Exposure Duration     |
|-------------------------------|------------|---|--|-------------------------|------------------------|-----------------------|
| Stoddard Solvent              | Inhalation | nervous system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 4.6 mg/l         | 6 months              |
| Stoddard Solvent              | Inhalation | kidney and/or bladder                                     | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 1.9 mg/l         | 13 weeks              |
| Stoddard Solvent              | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.6 mg/l         | 90 days               |
| Stoddard Solvent              | Inhalation | bone, teeth, nails, and/or hair   blood   liver   muscles | All data are negative  | Rat                     | NOAEL 5.6 mg/l         | 12 weeks              |
| Stoddard Solvent              | Inhalation | heart   | All data are negative  | Multiple animal species | NOAEL 1.3 mg/l         | 90 days               |
| Aluminum Oxide (non-fibrous)  | Inhalation | pneumoconiosis   pulmonary fibrosis                       | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available    | occupational exposure |
| Castor Oil                    | Ingestion  | heart   hematopoietic system   liver                      | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 4,800 mg/kg/day  | 13 weeks              |
| Castor Oil                    | Ingestion  | kidney and/or bladder                                     | Some positive data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 13,000 mg/kg/day | 13 weeks              |
| White Mineral Oil (Petroleum) | Ingestion  | hematopoietic system                                      | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1,381 mg/kg/day  | 90 days               |
| White Mineral Oil (Petroleum) | Ingestion  | liver   immune system                                     | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1,336 mg/kg/day  | 90 days               |
| Ethylbenzene                  | Inhalation | kidney and/or bladder                                     | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1.1 mg/l         | 2 years               |
| Ethylbenzene                  | Inhalation | liver   | Some positive data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 1.1 mg/l         | 103 weeks             |
| Ethylbenzene                  | Inhalation | hematopoietic system                                      | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 3.4 mg/l         | 28 days               |
| Ethylbenzene                  | Inhalation | auditory system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 2.4 mg/l         | 5 days                |
| Ethylbenzene                  | Inhalation | endocrine system  | Some positive data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 3.3 mg/l         | 103 weeks             |

|              |            |  |  |                         |                     |                        |
|--------------|------------|--|--|-------------------------|---------------------|------------------------|
| Ethylbenzene | Inhalation | bone, teeth, nails, and/or hair   muscles  | All data are negative  | Multiple animal species | NOAEL 4.2 mg/l      | 90 days                |
| Ethylbenzene | Inhalation | heart   immune system   respiratory system | All data are negative  | Multiple animal species | NOAEL 3.3 mg/l      | 2 years                |
| Ethylbenzene | Ingestion  | liver   kidney and/or bladder              | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 680 mg/kg/day | 6 months               |
| Naphthalene  | Dermal     | blood                                      | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | poisoning and/or abuse |
| Naphthalene  | Dermal     | eyes                                       | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available | occupational exposure  |
| Naphthalene  | Inhalation | respiratory system                         | Causes damage to organs through prolonged or repeated exposure               | Rat                     | LOAEL 0.01 mg/l     | 13 weeks               |
| Naphthalene  | Inhalation | blood                                      | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | poisoning and/or abuse |
| Naphthalene  | Inhalation | eyes                                       | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available | occupational exposure  |
| Naphthalene  | Ingestion  | blood                                      | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | poisoning and/or abuse |
| Naphthalene  | Ingestion  | eyes                                       | May cause damage to organs through prolonged or repeated exposure            | Rabbit                  | LOAEL 500 mg/kg/day | 15 days                |

**Aspiration Hazard**

| Name                                     | Value             |
|--|-------------------|
| Stoddard Solvent                         | Aspiration hazard |
| Hydrotreated Light Petroleum Distillates | Aspiration hazard |
| White Mineral Oil (Petroleum)            | Aspiration hazard |
| Ethylbenzene                             | 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****Ecotoxicological information**

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

**Chemical fate information**

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

**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**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - No      Pressure Hazard - No      Reactivity Hazard - No      Immediate Hazard - Yes      Delayed Hazard - Yes

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| <u><b>Ingredient</b></u> | <u><b>C.A.S. No</b></u> | <u><b>% by Wt</b></u> |
|--------------------------|-------------------------|-----------------------|
| Ethylbenzene             | 100-41-4                | Trade Secret < 0.5    |
| Naphthalene              | 91-20-3                 | Trade Secret < 0.1    |

**15.2. State Regulations**

Contact 3M for more information.

**California Proposition 65**

| <u><b>Ingredient</b></u> | <u><b>C.A.S. No.</b></u> | <u><b>Classification</b></u> |
|--------------------------|--------------------------|------------------------------|
| Ethylbenzene             | 100-41-4                 | Carcinogen                   |
| Naphthalene              | 91-20-3                  | Carcinogen                   |

WARNING: This product contains a chemical known to the State of California to cause cancer.

**15.3. Chemical Inventories**

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

**15.4. International Regulations**

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**SECTION 16: Other information****NFPA Hazard Classification**

**Health: 2    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.

**HMIS Hazard Classification****Health:** 2    **Flammability:** 1    **Physical Hazard:** 0    **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 22-5036-3 | <b>Version Number:</b>  | 10.00    |
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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Perfect-It™ EX Rubbing Compound, 36058, 36059, 36060, 36061, 36062, 36063, 36064

#### Product Identification Numbers

LB-K100-0995-1, LB-K100-1027-1, LB-K100-1184-6, LB-K100-1311-6, LB-K100-1347-8, 60-4550-7010-6, 60-4550-7028-8, 60-4550-7048-6, 60-4550-7049-4, 60-4550-7050-2, 60-4550-7119-5

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

##### Recommended use

Automotive, Rubbing Compound

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Automotive Aftermarket                  |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Skin Sensitizer: Category 1.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

##### Pictograms

**Hazard Statements**

May cause an allergic skin reaction.

**Precautionary Statements****General:**

Keep out of reach of children.

**Prevention:**

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves.

Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

## SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No. | % by Wt                |
|--|------------|------------------------|
| Water  | 7732-18-5  | 40 - 70 Trade Secret * |
| Aluminum Oxide   | 1344-28-1  | 10 - 30 Trade Secret * |
| Hydrotreated Light Petroleum Distillates                         | 64742-47-8 | 10 - 30 Trade Secret * |
| White Mineral Oil (Petroleum)                                    | 8042-47-5  | 1 - 5 Trade Secret *   |
| Glycerin   | 56-81-5    | 1 - 5 Trade Secret *   |
| Ethylene Oxide, Polymer with Ethylenediamine and Propylene Oxide | 26316-40-5 | <= 0.9 Trade Secret *  |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

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

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

**Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye Contact:**

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

**If Swallowed:**

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

**5.2. Special hazards arising from the substance or mixture**

Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products****Substance**

Hydrocarbons  
Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen

**Condition**

During Combustion  
During Combustion  
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. 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**

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

**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. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage



**7.1. Precautions for safe handling**

Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

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

Keep from freezing.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

| Ingredient                               | C.A.S. No. | Agency | Limit type  | Additional Comments                         |
|--|------------|--------|---|---|
| Aluminum Oxide                           | 1344-28-1  | CMRG   | TWA:1 fiber/cc  |   |
| Aluminum Oxide                           | 1344-28-1  | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup> |   |
| Aluminum, insoluble compounds            | 1344-28-1  | ACGIH  | TWA(respirable fraction):1 mg/m <sup>3</sup>  | A4: Not class. as human carcin              |
| Glycerin                                 | 56-81-5    | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup> |   |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | CMRG   | TWA:165 ppm   |   |
| Kerosine (petroleum)                     | 64742-47-8 | ACGIH  | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m <sup>3</sup>                    | Skin Notation, A3: Confirmed animal carcin. |
| MINERAL OILS, HIGHLY-REFINED OILS        | 8042-47-5  | ACGIH  | TWA(inhalable fraction):5 mg/m <sup>3</sup>   | A4: Not class. as human carcin              |
| Paraffin oil                             | 8042-47-5  | OSHA   | TWA(as mist):5 mg/m <sup>3</sup>  |   |
| White Mineral Oil (Petroleum)            | 8042-47-5  | CMRG   | TWA:5 mg/m <sup>3</sup> ;STEL:10 mg/m <sup>3</sup>                                    |   |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining. 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/vapors/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.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

#### 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 vapors and particulates

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>General Physical Form:</b>                  | Liquid   |
| <b>Odor, Color, Grade:</b>                     | Tan liquid slight pine oil odor                          |
| <b>Odor threshold</b>                          | No Data Available  |
| <b>pH</b>                                      | 7.5 - 9  |
| <b>Melting point</b>                           | No Data Available  |
| <b>Boiling Point</b>                           | No Data Available  |
| <b>Flash Point</b>                             | >=200 °F [Test Method: Closed Cup]                       |
| <b>Evaporation rate</b>                        | No Data Available  |
| <b>Flammability (solid, gas)</b>               | Not Applicable   |
| <b>Flammable Limits(LEL)</b>                   | No Data Available  |
| <b>Flammable Limits(UEL)</b>                   | No Data Available  |
| <b>Vapor Pressure</b>                          | No Data Available  |
| <b>Vapor Density</b>                           | No Data Available  |
| <b>Density</b>                                 | 1.05 - 1.1 g/ml  |
| <b>Specific Gravity</b>                        | 1.05 - 1.1 [Ref Std: WATER=1]                            |
| <b>Solubility In Water</b>                     | No Data Available  |
| <b>Solubility- non-water</b>                   | No Data Available  |
| <b>Partition coefficient: n-octanol/ water</b> | No Data Available  |
| <b>Autoignition temperature</b>                | No Data Available  |
| <b>Decomposition temperature</b>               | No Data Available  |
| <b>Viscosity</b>                               | 30,000 - 35,000 centipoise                               |
| <b>Hazardous Air Pollutants</b>                | 0.008 lb HAPS/lb solids [Test Method: Calculated]        |
| <b>Volatile Organic Compounds</b>              | 174 g/l [Test Method: calculated SCAQMD rule 443.1]      |
| <b>Volatile Organic Compounds</b>              | 16.2 % weight [Test Method: calculated per CARB title 2] |
| <b>Percent volatile</b>                        | 78.3 % weight  |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | 524 g/l [Test Method: calculated SCAQMD rule 443.1]      |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

This material is considered to be non reactive under normal use conditions.

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

None known.

**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 labeling, 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. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye Contact:**

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**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 |
| Hydrotreated Light Petroleum Distillates | Dermal                         | Rabbit  | LD50 > 3,160 mg/kg                              |
| Hydrotreated Light Petroleum Distillates | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 3.0 mg/l                                 |
| Hydrotreated Light Petroleum Distillates | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                              |
| Aluminum Oxide                           | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg              |
| Aluminum Oxide                           | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 2.3 mg/l                                 |
| Aluminum Oxide                           | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                              |
| Glycerin                                 | Dermal                         | Rabbit  | LD50 estimated to be > 5,000 mg/kg              |
| Glycerin                                 | 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                              |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                     | Species | Value                     |
|--|---------|---------------------------|
| Hydrotreated Light Petroleum Distillates | Rabbit  | Mild irritant             |
| Aluminum Oxide                           | Rabbit  | No significant irritation |
| Glycerin                                 | Rabbit  | No significant irritation |
| White Mineral Oil (Petroleum)            | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                     | Species | Value                     |
|--|---------|---------------------------|
| Hydrotreated Light Petroleum Distillates | Rabbit  | Mild irritant             |
| Aluminum Oxide                           | Rabbit  | No significant irritation |
| Glycerin                                 | Rabbit  | No significant irritation |
| White Mineral Oil (Petroleum)            | Rabbit  | Mild irritant             |

**Skin Sensitization**

| Name                                     | Species    | Value           |
|--|------------|-----------------|
| Hydrotreated Light Petroleum Distillates | Guinea pig | Not sensitizing |
| Glycerin                                 | Guinea pig | Not sensitizing |
| White Mineral Oil (Petroleum)            | Guinea pig | Not sensitizing |

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

| Name                                     | Route    | Value         |
|--|----------|---------------|
| Hydrotreated Light Petroleum Distillates | In Vitro | Not mutagenic |
| Aluminum Oxide                           | In Vitro | Not mutagenic |
| White Mineral Oil (Petroleum)            | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name                                     | Route      | Species         | Value  |
|--|------------|-----------------|--|
| Hydrotreated Light Petroleum Distillates | Dermal     | Mouse           | Some positive data exist, but the data are not sufficient for classification |
| Aluminum Oxide                           | Inhalation | Rat             | Not carcinogenic   |
| Glycerin                                 | 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 | Not carcinogenic   |

|  |  |         |  |
|--|--|---------|--|
|  |  | species |  |
|--|--|---------|--|

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name                          | Route     | Value                            | Species | Test Result                 | Exposure Duration   |
|-------------------------------|-----------|----------------------------------|---------|-----------------------------|---------------------|
| Glycerin                      | Ingestion | Not toxic to female reproduction | Rat     | NOAEL<br>2,000<br>mg/kg/day | 2 generation        |
| Glycerin                      | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL<br>2,000<br>mg/kg/day | 2 generation        |
| Glycerin                      | Ingestion | Not toxic to development         | Rat     | NOAEL<br>2,000<br>mg/kg/day | 2 generation        |
| White Mineral Oil (Petroleum) | Ingestion | Not toxic to female reproduction | Rat     | NOAEL<br>4,350<br>mg/kg/day | 13 weeks            |
| White Mineral Oil (Petroleum) | Ingestion | Not toxic to male reproduction   | Rat     | NOAEL<br>4,350<br>mg/kg/day | 13 weeks            |
| White Mineral Oil (Petroleum) | Ingestion | Not toxic to development         | Rat     | NOAEL<br>4,350<br>mg/kg/day | during<br>gestation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name                                     | Route      | Target Organ(s)                   | Value  | Species | Test Result         | Exposure Duration |
|--|------------|-----------------------------------|--|---------|---------------------|-------------------|
| Hydrotreated Light Petroleum Distillates | Inhalation | central nervous system depression | May cause drowsiness or dizziness  |         | NOAEL Not available |                   |
| Hydrotreated Light Petroleum Distillates | 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     |
|-------------------------------|------------|---|--|---------|------------------------|-----------------------|
| Aluminum Oxide                | Inhalation | pneumoconiosis   pulmonary fibrosis                                     | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not available    | occupational exposure |
| Glycerin                      | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 3.91 mg/l        | 14 days               |
| Glycerin                      | Inhalation | heart   liver   kidney and/or bladder                                   | All data are negative  | Rat     | NOAEL 3.91 mg/l        | 14 days               |
| Glycerin                      | Ingestion  | endocrine system   hematopoietic system   liver   kidney and/or bladder | All data are negative  | Rat     | NOAEL 10,000 mg/kg/day | 2 years               |
| White Mineral Oil (Petroleum) | Ingestion  | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 1,381 mg/kg/day  | 90 days               |
| White Mineral Oil (Petroleum) | Ingestion  | liver   immune system   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 1,336 mg/kg/day  | 90 days               |

## Aspiration Hazard

| Name                                     | Value             |
|--|-------------------|
| Hydrotreated Light Petroleum Distillates | 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

### Ecotoxicological information

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

### Chemical fate information

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

## 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

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No   Pressure Hazard - No   Reactivity Hazard - No   Immediate Hazard - Yes   Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| <u>Ingredient</u>                                    | <u>C.A.S. No</u> | <u>% by Wt</u> |
|--|------------------|----------------|
| Aluminum Oxide                                       | 1344-28-1        | 10 - 30        |
| Aluminum Oxide (ALUMINUM OXIDE (FIBROUS FORMS ONLY)) | 1344-28-1        | 10 - 30        |

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

#### 15.4. International Regulations

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

### SECTION 16: Other information

#### NFPA Hazard Classification

**Health:** 2 **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.

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