# Safety Data Sheet



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|---|---|---|---|
| **Document group:** | 45-2578-8 | **Version number:** | 1.00 |
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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Perfect-ItTM Foam Pad glaze

**Product Identification Numbers**
IA-2601-6140-0

**1.2. Recommended use and restrictions on use**

**Recommended use**
Automotive., Paint Surfaces

**1.3. Supplier's details**

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

**1.4. Emergency telephone number**
080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

## SECTION 2: Hazard identification

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

**2.1. Classification of the substance or mixture**
Carcinogenicity: Category 2.
Reproductive Toxicity: Category 2.

**2.2. Label elements**
**Signal Word**
Warning

**Symbols**
Health Hazard |

**Pictograms**

**HAZARD STATEMENTS:**

| | |
|---|---|
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

| | |
|---|---|
| P280E | Wear protective gloves. |

**2.3. Other hazards**

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

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | CAS Nbr | % by Wt |
|---|---|---|
| Water | 7732-18-5 | 60 - 100 |
| Distillates (petroleum), acid-treated light | 64742-14-9 | 7 - 13 |
| Dodecamethylcyclohexasiloxane | 540-97-6 | < 10 |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | 5 - 10 |
| Decamethylcyclopentasiloxane | 541-02-6 | < 10 |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 3 - 7 |
| Kaolin, calcined | 92704-41-1 | 1 - 5 |
| Diethanolamine | 111-42-2 | < 0.2 |

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation**

Remove person to fresh air. If you are concerned, get medical advice.

**Skin contact**

Wash with soap and water. If you are concerned, get medical advice.

**Eye contact**

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

**If swallowed**

Rinse mouth. If you are concerned, get medical advice.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable Extinguishing media**
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam 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 | Condition |
|---|---|
| Hydrocarbons. | During combustion. |
| Formaldehyde | During combustion. |
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | 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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

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

**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 an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

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

**7.2. Conditions for safe storage including any incompatibilities**
Store away from acids. Store away from oxidising agents.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|---|---|---|---|---|
| Diethanolamine | 111-42-2 | ACGIH | TWA(inhalable fraction and vapor):1 mg/m3 | A3: Confirmed animal carcin., Danger of cutaneous absorption |
| Aluminum, insoluble compounds | 1344-28-1 | ACGIH | TWA(respirable fraction):1 mg/m3 | A4: Not class. as human carcin |
| Decamethylcyclopentasiloxane | 541-02-6 | AIHA | TWA:10 ppm | |
| Kerosine (petroleum) | 64742-47-8 | ACGIH | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3 | A3: Confirmed animal carcin., SKIN |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

### 8.2. Exposure controls

**8.2.1. Engineering controls**
No engineering controls required.

**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.
Nitrile rubber.
Natural rubber.

**Respiratory protection**
None required.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid. |
| **Color** | Gray |
| **Odor** | Slight Solvent |
| **Odour threshold** | *No data available.* |
| **pH** | 7.5 - 8.5 |

| | |
|---|---|
| **Melting point/Freezing point: NA** | *No data available.* |
| **Boiling point/Initial boiling point/Boiling range** | 100 ºC |
| **Flash point** | >=93.3 ºC [*Test Method:*Closed Cup] |
| **Evaporation rate** | *No data available.* |
| **Flammability** | Not applicable. |
| **Flammable Limits(LEL)** | *No data available.* |
| **Flammable Limits(UEL)** | *No data available.* |
| **Vapour pressure** | 2,399.8 Pa |
| **Vapor Density and/or Relative Vapor Density** | *No data available.* |
| **Density** | 0.958 - 1.006 g/ml |
| **Relative density** | 0.958 - 1.006 [*Ref Std:*WATER=1] |
| **Water solubility** | *No data available.* |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **Kinematic Viscosity** | 16,293 mm²/sec |
| **Volatile organic compounds (VOC)** | 14.7 % weight [*Test Method:*calculated per CARB title 2] |
| **Percent volatile** | 81.6 % weight |
| **VOC less H2O & exempt solvents** | 453 g/l [*Test Method:*calculated SCAQMD rule 443.1] |
| **Molecular weight** | *No data available.* |

| | |
|---|---|
| **Particle Characteristics** | *Not applicable.* |

## SECTION 10: Stability and reactivity

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

**10.2 Chemical stability**
Stable.

**10.3 Possibility of hazardous reactions**
Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**
Light.

**10.5 Incompatible materials**
Strong acids.
Strong oxidising agents.

**10.6 Hazardous decomposition products**

| **Substance** | **Condition** |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be**

**reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.**

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

**Inhalation**
No known health effects.

**Skin contact**
Contact with the skin during product use is not expected to result in significant irritation. May cause additional health effects (see below).

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

**Ingestion**
May cause additional health effects (see below).

**Additional Health Effects:**

**Reproductive/Developmental Toxicity:**
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**Carcinogenicity:**
Contains a chemical or chemicals which can cause cancer.

**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 | 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 |
| Decamethylcyclopentasiloxane | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Decamethylcyclopentasiloxane | Inhalation-Dust/Mist (4 hours) | Rat | LC50 8.7 mg/l |
| Decamethylcyclopentasiloxane | Inhalation-Vapor (4 hours) | Rat | LC50 > 6.72 mg/l |
| Decamethylcyclopentasiloxane | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Distillates (petroleum), acid-treated light | Ingestion | Rat | LD50 > 15,000 mg/kg |
| Distillates (petroleum), acid-treated light | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| Dodecamethylcyclohexasiloxane | Dermal | Rat | LD50 > 2,000 mg/kg |
| Dodecamethylcyclohexasiloxane | Ingestion | Rat | LD50 > 2,000 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 |
| Distillates (petroleum), hydrotreated light | Ingestion | Rat | LD50 > 15,000 mg/kg |
| Distillates (petroleum), hydrotreated light | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| Kaolin, calcined | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 2.07 mg/l |
| Kaolin, calcined | Dermal | similar compounds | LD50 > 5,000 mg/kg |
| Kaolin, calcined | Ingestion | similar compounds | LD50 > 5,000 mg/kg |
| Diethanolamine | Dermal | Rabbit | LD50 8,180 mg/kg |
| Diethanolamine | Ingestion | Rat | LD50 1,410 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Decamethylcyclopentasiloxane | Rabbit | No significant irritation |
| Distillates (petroleum), acid-treated light | similar compounds | Mild irritant |
| Dodecamethylcyclohexasiloxane | Rabbit | No significant irritation |
| Aluminum Oxide (non-fibrous) | Rabbit | No significant irritation |
| Distillates (petroleum), hydrotreated light | similar compounds | Mild irritant |
| Kaolin, calcined | Rabbit | No significant irritation |
| Diethanolamine | Rabbit | Irritant |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Decamethylcyclopentasiloxane | Rabbit | No significant irritation |
| Distillates (petroleum), acid-treated light | similar compounds | No significant irritation |
| Dodecamethylcyclohexasiloxane | Rabbit | No significant irritation |
| Aluminum Oxide (non-fibrous) | Rabbit | No significant irritation |
| Distillates (petroleum), hydrotreated light | similar compounds | No significant irritation |
| Kaolin, calcined | Rabbit | No significant irritation |
| Diethanolamine | Rabbit | Corrosive |

**Sensitization:**

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| Decamethylcyclopentasiloxane | Mouse | Not classified |
| Distillates (petroleum), acid-treated light | similar compounds | Not classified |
| Dodecamethylcyclohexasiloxane | Guinea pig | Not classified |
| Distillates (petroleum), hydrotreated light | similar compounds | Not classified |
| Diethanolamine | Human and | Not classified |

| | | |
|---|---|---|
| | animal | |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Decamethylcyclopentasiloxane | In Vitro | Not mutagenic |
| Decamethylcyclopentasiloxane | In vivo | Not mutagenic |
| Distillates (petroleum), acid-treated light | In Vitro | Not mutagenic |
| Dodecamethylcyclohexasiloxane | In Vitro | Not mutagenic |
| Dodecamethylcyclohexasiloxane | In vivo | Not mutagenic |
| Aluminum Oxide (non-fibrous) | In Vitro | Not mutagenic |
| Distillates (petroleum), hydrotreated light | In Vitro | Not mutagenic |
| Diethanolamine | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Decamethylcyclopentasiloxane | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| Aluminum Oxide (non-fibrous) | Inhalation | Rat | Not carcinogenic |
| Diethanolamine | Dermal | Mouse | Carcinogenic. |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Decamethylcyclopentasiloxane | Inhalation | Not classified for female reproduction | Rat | NOAEL 2.43 mg/l | 2 generation |
| Decamethylcyclopentasiloxane | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.43 mg/l | 2 generation |
| Decamethylcyclopentasiloxane | Inhalation | Not classified for development | Multiple animal species | NOAEL 2.4 mg/l | during gestation |
| Dodecamethylcyclohexasiloxane | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 2 generation |
| Dodecamethylcyclohexasiloxane | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 2 generation |
| Dodecamethylcyclohexasiloxane | Ingestion | Not classified for development | Multiple animal species | NOAEL 1,000 mg/kg/day | during gestation |
| Diethanolamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 128 mg/kg/day | 1 generation |
| Diethanolamine | Dermal | Not classified for development | Rabbit | NOAEL 100 mg/kg/day | during organogenesis |
| Diethanolamine | Inhalation | Not classified for development | Rat | NOAEL 0.05 mg/l | during organogenesis |
| Diethanolamine | Ingestion | Toxic to female reproduction | Rat | NOAEL 38 mg/kg/day | 1 generation |
| Diethanolamine | Ingestion | Toxic to development | Rat | NOAEL 38 mg/kg/day | 1 generation |

**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 | respiratory irritation | Some positive data exist, but the data are not sufficient for | similar health | NOAEL Not available | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | classification | hazards | | |
| Dodecamethylcyclohexasiloxane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL not available | |
| Distillates (petroleum), hydrotreated light | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Diethanolamine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL not available | |
| Diethanolamine | Ingestion | kidney and/or bladder | May cause damage to organs | Rat | NOAEL 200 mg/kg | not applicable |
| Diethanolamine | Ingestion | central nervous system depression | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 200 mg/kg | not applicable |
| Diethanolamine | Ingestion | liver | Not classified | Rat | NOAEL 1,600 mg/kg | not applicable |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Decamethylcyclopentasiloxane | Dermal | hematopoietic system \| eyes | Not classified | Rat | NOAEL 1,600 mg/kg/day | 28 days |
| Decamethylcyclopentasiloxane | Inhalation | hematopoietic system \| respiratory system \| liver \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 2.42 mg/l | 2 years |
| Decamethylcyclopentasiloxane | Ingestion | liver \| immune system \| respiratory system \| heart \| gastrointestinal tract \| hematopoietic system \| kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Distillates (petroleum), acid-treated light | Inhalation | liver | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| Distillates (petroleum), acid-treated light | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.5 mg/l | 13 weeks |
| Distillates (petroleum), acid-treated light | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| Distillates (petroleum), acid-treated light | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Distillates (petroleum), acid-treated light | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 100 mg/kg/day | 13 weeks |
| Distillates (petroleum), acid-treated light | Ingestion | hematopoietic system \| eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Dodecamethylcyclohexasiloxane | Inhalation | liver | Not classified | Rat | NOAEL 0.546 mg/l | 90 days |
| Dodecamethylcyclohexasiloxane | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.018 mg/l | 90 days |
| Dodecamethylcyclohexasiloxane | Inhalation | hematopoietic system \| eyes | Not classified | Rat | NOAEL 0.546 mg/l | 90 days |
| Dodecamethylcyclohexasiloxane | Ingestion | endocrine system \| liver \| hematopoietic system \| nervous system \| kidney and/or bladder \| respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Aluminum Oxide (non-fibrous) | Inhalation | pneumoconiosis | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Aluminum Oxide (non-fibrous) | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |

| | | | | | | |
|---|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated light | Inhalation | liver | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| Distillates (petroleum), hydrotreated light | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.5 mg/l | 13 weeks |
| Distillates (petroleum), hydrotreated light | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 6 mg/l | 13 weeks |
| Distillates (petroleum), hydrotreated light | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Distillates (petroleum), hydrotreated light | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 100 mg/kg/day | 13 weeks |
| Distillates (petroleum), hydrotreated light | Ingestion | hematopoietic system \| eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Kaolin, calcined | Inhalation | pneumoconiosis | Not classified | similar compounds | NOAEL not available | occupational exposure |
| Diethanolamine | Dermal | hematopoietic system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 32 mg/kg/day | 13 weeks |
| Diethanolamine | Dermal | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 8 mg/kg/day | 2 years |
| Diethanolamine | Dermal | liver | Not classified | Rat | NOAEL 500 mg/kg/day | 13 weeks |
| Diethanolamine | Inhalation | liver \| kidney and/or bladder | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| Diethanolamine | Ingestion | hematopoietic system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 14 mg/kg/day | 13 weeks |
| Diethanolamine | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 57 mg/kg/day | 13 weeks |
| Diethanolamine | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL not available | 13 weeks |
| Diethanolamine | Ingestion | liver | Not classified | Rat | NOAEL 436 mg/kg/day | 13 weeks |

**Aspiration Hazard**

| Name | Value |
|---|---|
| Distillates (petroleum), acid-treated light | Aspiration hazard |
| Distillates (petroleum), hydrotreated light | Aspiration hazard |

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

# SECTION 12: Ecological information

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

**12.1. Toxicity**

**Acute aquatic hazard:**
Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**
Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material | CAS Nbr | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Distillates (petroleum), acid-treated light | 64742-14-9 | Green algae | Estimated | 72 hours | EL50 | >1,000 mg/l |
| Distillates (petroleum), acid-treated light | 64742-14-9 | Rainbow trout | Estimated | 96 hours | LL50 | >1,000 mg/l |
| Distillates (petroleum), acid-treated light | 64742-14-9 | Water flea | Estimated | 48 hours | EL50 | >1,000 mg/l |
| Distillates (petroleum), acid-treated light | 64742-14-9 | Green algae | Estimated | 72 hours | NOEL | >1,000 mg/l |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | N/A | Experimental | 96 hours | LC50 | >100 mg/l |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Water flea | Experimental | 48 hours | LC50 | >100 mg/l |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Green algae | Experimental | 72 hours | NOEC | >100 mg/l |
| Decamethylcyclopentasiloxane | 541-02-6 | Activated sludge | Experimental | 3 hours | EC50 | >2,000 mg/l |
| Decamethylcyclopentasiloxane | 541-02-6 | Green algae | Experimental | 96 hours | ErC50 | >100 mg/l |
| Decamethylcyclopentasiloxane | 541-02-6 | Rainbow trout | Experimental | 96 hours | LC50 | >100 mg/l |
| Decamethylcyclopentasiloxane | 541-02-6 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Decamethylcyclopentasiloxane | 541-02-6 | Green algae | Experimental | 96 hours | NOEC | 100 mg/l |
| Decamethylcyclopentasiloxane | 541-02-6 | Rainbow trout | Experimental | 90 days | NOEC | 100 mg/l |
| Decamethylcyclopentasiloxane | 541-02-6 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| Dodecamethylcyclohexasiloxane | 540-97-6 | Activated sludge | Experimental | 3 hours | EC50 | >100 mg/l |
| Dodecamethylcyclohexasiloxane | 540-97-6 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Dodecamethylcyclohexasiloxane | 540-97-6 | Fathead minnow | Experimental | 49 days | NOEC | 100 mg/l |
| Dodecamethylcyclohexasiloxane | 540-97-6 | Green algae | Experimental | 72 hours | NOEC | 100 mg/l |
| Dodecamethylcyclohexasiloxane | 540-97-6 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Green algae | Experimental | 72 hours | EL50 | >1,000 mg/l |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Rainbow trout | Experimental | 96 hours | LL50 | >1,000 mg/l |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Water flea | Experimental | 48 hours | EL50 | >1,000 mg/l |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Green algae | Experimental | 72 hours | NOEL | 1,000 mg/l |
| Kaolin, calcined | 92704-41-1 | Bacteria | Estimated | 16 hours | EC10 | 1,400 mg/l |
| Kaolin, calcined | 92704-41-1 | Green algae | Estimated | 72 hours | EC50 | 2,500 mg/l |
| Kaolin, calcined | 92704-41-1 | Water flea | Estimated | 48 hours | EC50 | >100 mg/l |
| Kaolin, calcined | 92704-41-1 | Zebra Fish | Estimated | 96 hours | LC50 | >100 mg/l |
| Kaolin, calcined | 92704-41-1 | Green algae | Estimated | 72 hours | EC10 | 41 mg/l |
| Kaolin, calcined | 92704-41-1 | Rainbow trout | Estimated | 30 days | NOEC | 100 mg/l |
| Diethanolamine | 111-42-2 | Fathead minnow | Experimental | 96 hours | LC50 | 100 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Diethanolamine | 111-42-2 | Green algae | Experimental | 72 hours | EC50 | 9.5 mg/l |
| Diethanolamine | 111-42-2 | Water flea | Experimental | 48 hours | LC50 | 2.15 mg/l |
| Diethanolamine | 111-42-2 | Green algae | Experimental | 72 hours | NOEC | 0.6 mg/l |
| Diethanolamine | 111-42-2 | Water flea | Experimental | 21 days | NOEC | 0.78 mg/l |

### 12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Distillates (petroleum), acid-treated light | 64742-14-9 | Estimated Biodegradation | 28 days | BOD | 69 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Data not available-insufficient | N/A | N/A | N/A | N/A |
| Decamethylcyclopentasiloxane | 541-02-6 | Experimental Biodegradation | 28 days | CO2 evolution | 0.14 %CO2 evolution/THCO2 evolution | OECD 310 CO2 Headspace |
| Decamethylcyclopentasiloxane | 541-02-6 | Experimental Photolysis | | Photolytic half-life (in air) | 20.4 days (t 1/2) | |
| Decamethylcyclopentasiloxane | 541-02-6 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 66 days (t 1/2) | |
| Dodecamethylcyclohexasiloxane | 540-97-6 | Experimental Biodegradation | 28 days | CO2 evolution | 4.47 %CO2 evolution/THCO2 evolution | OECD 310 CO2 Headspace |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Estimated Biodegradation | 28 days | BOD | 69 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Kaolin, calcined | 92704-41-1 | Data not available-insufficient | N/A | N/A | N/A | N/A |
| Diethanolamine | 111-42-2 | Experimental Biodegradation | 10 days | BOD | 72 %BOD/ThOD | OECD 301D - Closed bottle test |
| Diethanolamine | 111-42-2 | Experimental Biodegradation | 9 days | Dissolv. Organic Carbon Deplet | 98 %removal of DOC | OECD 302C - Modified MITI (II) |

### 12.3 : Bioaccumulative potential

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Distillates (petroleum), acid-treated light | 64742-14-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Decamethylcyclopentasiloxane | 541-02-6 | Experimental BCF - Fish | 35 days | Bioaccumulation factor | 7060 | OECD305-Bioconcentration |
| Decamethylcyclopentasiloxane | 541-02-6 | Experimental Bioconcentration | | Log Kow | 8.03 | |
| Dodecamethylcyclohexasiloxane | 540-97-6 | Experimental BCF - Fish | 49 days | Bioaccumulation factor | 1160 | OECD305-Bioconcentration |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Kaolin, calcined | 92704-41-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Diethanolamine | 111-42-2 | Experimental Bioconcentration | | Log Kow | -2.18 | OECD 107 log Kow shke flsk mtd |

### 12.4. Mobility in soil

Please contact manufacturer for more details

**12.5 Other Adverse effects**
No information available.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

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

## SECTION 14: Transport Information

Not hazardous for transportation.

**Air Transport (IATA)Regulations**

**UN No** Not applicable
**Proper Shipping Name** Not applicable
**Hazard Classs/Division** Not applicable
**Subsidiary Risk** Not applicable
**Packing Group:** Not applicable

**Marine Transport (IMDG)**
**UN No** Not applicable
**Proper Shipping Name** Not applicable
**Hazard Classs/Division** Not applicable
**Subsidiary Risk** Not applicable
**Packing Group:** Not applicable
**Environmental Hazards:** Not applicable

## SECTION 15: Regulatory information

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

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

**Applicable Environmental, Health and Safety Regulations**

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

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

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

## SECTION 16: Other information

**NFPA Hazard Classification**

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

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

**Revision information:**
No revision information

DISCLAIMER: The information in this Safety Data Sheet (SDS) is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into India, you are responsible to comply with all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

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