



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

3M 51815, 51816, 51818 Fast Cut Plus Extreme

#### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| UU-0089-7239-8 | UU-0089-7240-6 | UU-0089-7282-8 | UU-0095-4165-5 | UU-0110-6066-0 |
| 7100136343     | 7100136486     | 7100136485     | 7100169681     | 7100231952     |

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Automotive.

#### 1.3. Details of the supplier of the safety data sheet

**Address:** 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.  
**Telephone:** +353 1 280 3555  
**E Mail:** tox.uk@mmm.com  
**Website:** www.3M.com

#### 1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

The aspiration hazard classification is not required due to the product's viscosity.

##### CLASSIFICATION:

Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

## 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

### SIGNAL WORD

WARNING.

### Symbols

GHS08 (Health Hazard) |

### Pictograms



### Ingredients:

| Ingredient  | CAS Nbr | EC No.    | % by Wt |
|---|---------|-----------|---------|
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) |         | 919-446-0 | < 7     |

### HAZARD STATEMENTS:

|      |  |
|------|--|
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system. |
| H412 | Harmful to aquatic life with long lasting effects.                                 |

### PRECAUTIONARY STATEMENTS

#### Prevention:

|       |                         |
|-------|-------------------------|
| P260A | Do not breathe vapours. |
|-------|-------------------------|

### SUPPLEMENTAL INFORMATION:

#### Supplemental Hazard Statements:

|        |  |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking.                    |
| EUH208 | Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction. |

4% of the mixture consists of components of unknown acute oral toxicity.

Contains 2% of components with unknown hazards to the aquatic environment.

## 2.3. Other hazards

None known.

This material does not contain any substances that are assessed to be a PBT or vPvB

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

## 3.2. Mixtures

| Ingredient  | Identifier(s)   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---|---|---------|--|
| Water   | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2                                 | 25 - 30 | Substance not classified as hazardous  |
| Aluminium oxide   | (CAS-No.) 1344-28-1<br>(EC-No.) 215-691-6<br>(REACH-No.) 01-2119529248-35 | 20 - 25 | Substance with a national occupational exposure limit  |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | (EC-No.) 926-141-6<br>(REACH-No.) 01-2119456620-43                        | < 12    | Asp. Tox. 1, H304<br>EUH066  |
| White mineral oil (petroleum)   | (CAS-No.) 8042-47-5<br>(EC-No.) 232-455-8<br>(REACH-No.) 01-2119487078-27 | < 10    | Asp. Tox. 1, H304  |
| Glycerol  | (CAS-No.) 56-81-5<br>(EC-No.) 200-289-5                                   | < 7     | Substance with a national occupational exposure limit  |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | (EC-No.) 919-446-0<br>(REACH-No.) 01-2119458049-33                        | < 7     | Aquatic Chronic 2, H411<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>EUH066<br>STOT RE 1, H372 |
| Sorbitan monooleate, ethoxylated  | (CAS-No.) 9005-65-6   | < 5     | Substance not classified as hazardous  |
| CASTOR OIL BASED PRODUCT AND WATER                                      | Trade Secret  | < 3     | Substance not classified as hazardous  |
| Synthetic amorphous silica, fumed, crystalline-free                     | (CAS-No.) 112945-52-5<br>(REACH-No.) 01-2119379499-16                     | < 3     | Substance with a national occupational exposure limit  |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | (EC-No.) 920-114-2<br>(REACH-No.) 01-2119459347-30                        | < 3     | Asp. Tox. 1, H304<br>EUH066  |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | (EC-No.) 918-811-1<br>(REACH-No.) 01-2119463583-34                        | < 3     | Asp. Tox. 1, H304<br>STOT SE 3, H336<br>EUH066<br>Aquatic Chronic 2, H411  |
| Alcohols, C16-18 and C18-unsatd.  | (CAS-No.) 68002-94-8<br>(EC-No.) 268-106-1                                | < 2     | Substance not classified as hazardous  |
| TERPINEOL   | (CAS-No.) 8000-41-7<br>(EC-No.) 232-268-1                                 | < 0.5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361f  |
| 1,2-benzisothiazol-3(2H)-one  | (CAS-No.) 2634-33-5<br>(EC-No.) 220-120-9                                 | < 0.05  | Acute Tox. 2, H330<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317         |

|  |  |  |  |
|--|--|--|--|
|  |  |  | Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1 |
|--|--|--|--|

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.  
Please see section 16 for the full text of any H statements referred to in this section

### Specific Concentration Limits

| Ingredient                   | Identifier(s)                             | Specific Concentration Limits     |
|------------------------------|---|-----------------------------------|
| 1,2-benzisothiazol-3(2H)-one | (CAS-No.) 2634-33-5<br>(EC-No.) 220-120-9 | (C >= 0.036%) Skin Sens. 1A, H317 |

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

## 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

The most important symptoms and effects based on the CLP classification include:

Dermal defatting (localized redness, itching, drying and cracking of skin). Target organ effects. See Section 11 for additional details.

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

Not applicable.

## SECTION 5: Fire-fighting measures

### 5.1. 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

None inherent in this product.

### Hazardous Decomposition or By-Products

#### Substance

Hydrocarbons.  
Carbon monoxide  
Carbon dioxide.

#### Condition

During combustion.  
During combustion.  
During combustion.

**5.3. Advice for fire-fighters**

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 vapours, 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.

**6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

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

Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial/occupational use only. Not for consumer sale or use. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

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

Store away from oxidising agents.

**7.3. Specific end use(s)**

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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

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

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>Agency</b> | <b>Limit type</b>  | <b>Additional comments</b> |
|-------------------|----------------|---------------|--|----------------------------|
| Silicon dioxide   | 112945-52-5    | Ireland OELs  | TWA(Total inhalable dust)(8 hours):6 mg/m <sup>3</sup> ;TWA(as respirable dust)(8 hours):2.4 mg/m <sup>3</sup> |                            |

|                                   |           |              |   |
|-----------------------------------|-----------|--------------|---|
| Aluminium oxide                   | 1344-28-1 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m <sup>3</sup> ;TWA(as respirable dust)(8 hours):4 mg/m <sup>3</sup> |
| DUST, INERT OR NUISANCE           | 56-81-5   | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m <sup>3</sup> ;TWA(as respirable dust)(8 hours):4 mg/m <sup>3</sup> |
| Mineral oils, highly-refined oils | 8042-47-5 | Ireland OELs | TWA(inhalable fraction)(8 hours):5 mg/m <sup>3</sup>  |

Ireland OELs : Ireland. OELs  
TWA: Time-Weighted-Average  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

**Biological limit values**

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**Recommended monitoring procedures:**Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

**8.2. Exposure controls**

In addition, refer to the annex for more information.

**8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:  
Safety glasses with side shields.

*Applicable Norms/Standards*

Use eye protection conforming to EN 166

**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:

| Material         | Thickness (mm)    | Breakthrough Time |
|------------------|-------------------|-------------------|
| Polymer laminate | No data available | No data available |

*Applicable Norms/Standards*

Use gloves tested to EN 374

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part

of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

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

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

#### *Applicable Norms/Standards*

Use a respirator conforming to EN 140 or EN 136: filter types A & P

### 8.2.3. Environmental exposure controls

Refer to Annex

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| Physical state                         | Liquid.   |
| Specific Physical Form:                | Emulsion  |
| Colour                                 | White   |
| Odor                                   | Oily, Pine  |
| Odour threshold                        | <i>No data available.</i>   |
| Melting point/freezing point           | <i>Not applicable.</i>  |
| Boiling point/boiling range            | <i>No data available.</i>   |
| Flammability                           | Not applicable.   |
| Flammable Limits(LEL)                  | <i>No data available.</i>   |
| Flammable Limits(UEL)                  | <i>No data available.</i>   |
| Flash point                            | <i>No data available.</i>   |
| Autoignition temperature               | <i>No data available.</i>   |
| Decomposition temperature              | <i>No data available.</i>   |
| pH                                     | 7.5 9 Units not available or not applicable. [Details:@20 C (+/-1 C)] |
| Kinematic Viscosity                    | 17,319 - 60,870 mm <sup>2</sup> /sec                                  |
| Water solubility                       | <i>No data available.</i>   |
| Solubility- non-water                  | <i>No data available.</i>   |
| Partition coefficient: n-octanol/water | <i>No data available.</i>   |
| Vapour pressure                        | <i>No data available.</i>   |
| Density                                | 1.15 g/cm <sup>3</sup> [@ 20 °C ]                                     |
| Relative density                       | 1.15 [Ref Std: WATER=1]   |
| Relative Vapour Density                | <i>No data available.</i>   |
| Particle Characteristics               | <i>Not applicable.</i>  |

### 9.2. Other information

#### 9.2.2 Other safety characteristics

EU Volatile Organic Compounds

*No data available.*

Evaporation rate

*Not applicable.*

Percent volatile

20 %

## 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

High shear and high temperature conditions  
Sparks and/or flames.

### 10.5 Incompatible materials

Alkali and alkaline earth metals.  
Strong oxidising agents.

### 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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 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. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain. May cause additional health effects (see below).

#### Skin contact

Mild Skin Irritation: Signs/symptoms may include localised 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 diarrhoea. May cause additional health effects (see below).

#### Additional Health Effects:

**Prolonged or repeated exposure may cause target organ effects:**



Central neuropathy: Signs/symptoms may include irritability, memory impairment, personality changes, sleep disorders, and decreased ability to concentrate.

**Reproductive/Developmental Toxicity:**

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

**Toxicological Data**

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

**Acute Toxicity**

| Name  | Route                          | Species                | Value  |
|---|--------------------------------|------------------------|--|
| Overall product   | Dermal                         |                        | No data available; calculated ATE >5,000 mg/kg |
| Overall product   | Inhalation-Vapour(4 hr)        |                        | No data available; calculated ATE >50 mg/l     |
| Overall product   | Ingestion                      |                        | No data available; calculated ATE >5,000 mg/kg |
| Aluminium oxide   | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg             |
| Aluminium oxide   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 2.3 mg/l                                |
| Aluminium oxide   | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                             |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Ingestion                      | Rat                    | LD50 > 15,000 mg/kg                            |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Dermal                         | similar compounds      | 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                             |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Dermal                         | Rat                    | LD50 > 3,400 mg/kg                             |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Inhalation-Vapour (4 hours)    | Rat                    | LC50 > 16.2 mg/l                               |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Ingestion                      | Rat                    | LD50 > 15,000 mg/kg                            |
| Glycerol  | Dermal                         | Rabbit                 | LD50 estimated to be > 5,000 mg/kg             |
| Glycerol  | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                             |
| Sorbitan monooleate, ethoxylated  | Dermal                         | Not available          | LD50 > 5,000 mg/kg                             |
| Sorbitan monooleate, ethoxylated  | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.1 mg/l                                |
| Sorbitan monooleate, ethoxylated  | Ingestion                      | Rat                    | LD50 20,000 mg/kg                              |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | Inhalation-Vapour              | Professional judgement | LC50 estimated to be 20 - 50 mg/l              |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                             |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                             |
| Synthetic amorphous silica, fumed, crystalline-free                     | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                             |
| Synthetic amorphous silica, fumed, crystalline-free                     | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                              |
| Synthetic amorphous silica, fumed, crystalline-free                     | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                             |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                             |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.3 mg/l                                |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                             |
| TERPINEOL   | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                             |
| TERPINEOL   | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                             |
| 1,2-benzisothiazol-3(2H)-one  | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                             |

|                              |           |     |                |
|------------------------------|-----------|-----|----------------|
| 1,2-benzisothiazol-3(2H)-one | Ingestion | Rat | LD50 454 mg/kg |
|------------------------------|-----------|-----|----------------|

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species           | Value                     |
|---|-------------------|---------------------------|
| Aluminium oxide   | Rabbit            | No significant irritation |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | similar compounds | Mild irritant             |
| White mineral oil (petroleum)   | Rabbit            | No significant irritation |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Rabbit            | Minimal irritation        |
| Glycerol  | Rabbit            | No significant irritation |
| Sorbitan monooleate, ethoxylated  | Rabbit            | No significant irritation |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | Rabbit            | Minimal irritation        |
| Synthetic amorphous silica, fumed, crystalline-free                     | Rabbit            | No significant irritation |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | Rabbit            | No significant irritation |
| TERPINEOL   | Rabbit            | Irritant                  |
| 1,2-benzisothiazol-3(2H)-one  | Rabbit            | No significant irritation |

**Serious Eye Damage/Irritation**

| Name  | Species           | Value                     |
|---|-------------------|---------------------------|
| Aluminium oxide   | Rabbit            | No significant irritation |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | similar compounds | No significant irritation |
| White mineral oil (petroleum)   | Rabbit            | Mild irritant             |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Rabbit            | No significant irritation |
| Glycerol  | Rabbit            | No significant irritation |
| Sorbitan monooleate, ethoxylated  | Rabbit            | No significant irritation |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | Rabbit            | Mild irritant             |
| Synthetic amorphous silica, fumed, crystalline-free                     | Rabbit            | No significant irritation |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | Rabbit            | Mild irritant             |
| TERPINEOL   | Rabbit            | Moderate irritant         |
| 1,2-benzisothiazol-3(2H)-one  | Rabbit            | Corrosive                 |

**Skin Sensitisation**

| Name  | Species           | Value          |
|---|-------------------|----------------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | similar compounds | Not classified |
| White mineral oil (petroleum)   | Guinea pig        | Not classified |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Guinea pig        | Not classified |
| Glycerol  | Guinea pig        | Not classified |
| Sorbitan monooleate, ethoxylated  | Guinea pig        | Not classified |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | Guinea pig        | Not classified |
| Synthetic amorphous silica, fumed, crystalline-free                     | Human and animal  | Not classified |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | Guinea pig        | Not classified |
| TERPINEOL   | Guinea pig        | Not classified |
| 1,2-benzisothiazol-3(2H)-one  | Guinea pig        | Sensitising    |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name   | Route    | Value  |
|--|----------|--|
| Aluminium oxide  | In Vitro | Not mutagenic  |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | In Vitro | Not mutagenic  |
| White mineral oil (petroleum)  | In Vitro | Not mutagenic  |
| Sorbitan monooleate, ethoxylated                                     | In Vitro | Not mutagenic  |
| Hydrocarbons, C10 aromatics, <1% naphthalene                         | In Vitro | Not mutagenic  |
| Hydrocarbons, C10 aromatics, <1% naphthalene                         | In vivo  | Not mutagenic  |
| Synthetic amorphous silica, fumed, crystalline-free                  | In Vitro | Not mutagenic  |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics            | In Vitro | Not mutagenic  |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics            | In vivo  | Not mutagenic  |
| TERPINEOL  | In Vitro | Not mutagenic  |
| 1,2-benzisothiazol-3(2H)-one   | In vivo  | Not mutagenic  |
| 1,2-benzisothiazol-3(2H)-one   | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name  | Route          | Species                 | Value  |
|---|----------------|-------------------------|--|
| Aluminium oxide                                     | Inhalation     | Rat                     | Not carcinogenic   |
| White mineral oil (petroleum)                       | Dermal         | Mouse                   | Not carcinogenic   |
| White mineral oil (petroleum)                       | Inhalation     | Multiple animal species | Not carcinogenic   |
| Glycerol  | Ingestion      | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Sorbitan monooleate, ethoxylated                    | Ingestion      | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Synthetic amorphous silica, fumed, crystalline-free | Not specified. | Mouse                   | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name                             | Route     | Value                                  | Species | Test result                 | Exposure Duration |
|----------------------------------|-----------|--|---------|-----------------------------|-------------------|
| White mineral oil (petroleum)    | Ingestion | Not classified for female reproduction | Rat     | NOAEL<br>4,350<br>mg/kg/day | 13 weeks          |
| White mineral oil (petroleum)    | Ingestion | Not classified for male reproduction   | Rat     | NOAEL<br>4,350<br>mg/kg/day | 13 weeks          |
| White mineral oil (petroleum)    | Ingestion | Not classified for development         | Rat     | NOAEL<br>4,350<br>mg/kg/day | during gestation  |
| Glycerol                         | Ingestion | Not classified for female reproduction | Rat     | NOAEL<br>2,000<br>mg/kg/day | 2 generation      |
| Glycerol                         | Ingestion | Not classified for male reproduction   | Rat     | NOAEL<br>2,000<br>mg/kg/day | 2 generation      |
| Glycerol                         | Ingestion | Not classified for development         | Rat     | NOAEL<br>2,000<br>mg/kg/day | 2 generation      |
| Sorbitan monooleate, ethoxylated | Ingestion | Not classified for female reproduction | Rat     | NOAEL<br>6,666<br>mg/kg/day | 3 generation      |
| Sorbitan monooleate, ethoxylated | Ingestion | Not classified for male reproduction   | Rat     | NOAEL<br>6,666<br>mg/kg/day | 3 generation      |
| Sorbitan monooleate, ethoxylated | Ingestion | Not classified for development         | Rat     | NOAEL                       | during            |

|   |                |  |     |                       |                            |
|---|----------------|--|-----|-----------------------|----------------------------|
|   |                |  |     | 5,000 mg/kg/day       | organogenesis              |
| Hydrocarbons, C10 aromatics, <1% naphthalene              | Not specified. | Not classified for female reproduction | Rat | NOAEL Not available   | 2 generation               |
| Hydrocarbons, C10 aromatics, <1% naphthalene              | Not specified. | Not classified for male reproduction   | Rat | NOAEL Not available   | 2 generation               |
| Hydrocarbons, C10 aromatics, <1% naphthalene              | Not specified. | Not classified for development         | Rat | NOAEL Not available   | 2 generation               |
| Synthetic amorphous silica, fumed, crystalline-free       | Ingestion      | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day   | 1 generation               |
| Synthetic amorphous silica, fumed, crystalline-free       | Ingestion      | Not classified for male reproduction   | Rat | NOAEL 497 mg/kg/day   | 1 generation               |
| Synthetic amorphous silica, fumed, crystalline-free       | Ingestion      | Not classified for development         | Rat | NOAEL 1,350 mg/kg/day | during organogenesis       |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for female reproduction | Rat | NOAEL Not available   | gestation into lactation   |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for male reproduction   | Rat | NOAEL Not available   | 28 days                    |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for development         | Rat | NOAEL Not available   | during gestation           |
| TERPINEOL   | Ingestion      | Not classified for female reproduction | Rat | NOAEL 250 mg/kg/day   | prematuring into lactation |
| TERPINEOL   | Ingestion      | Not classified for development         | Rat | NOAEL 250 mg/kg       | prematuring into lactation |
| TERPINEOL   | Ingestion      | Toxic to male reproduction             | Rat | NOAEL 250 mg/kg/day   | 5 weeks                    |
| 1,2-benzisothiazol-3(2H)-one                              | Ingestion      | Not classified for female reproduction | Rat | NOAEL 112 mg/kg/day   | 2 generation               |
| 1,2-benzisothiazol-3(2H)-one                              | Ingestion      | Not classified for male reproduction   | Rat | NOAEL 112 mg/kg/day   | 2 generation               |
| 1,2-benzisothiazol-3(2H)-one                              | Ingestion      | Not classified for development         | Rat | NOAEL 112 mg/kg/day   | 2 generation               |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name  | Route      | Target Organ(s)                   | Value  | Species                | Test result          | Exposure Duration |
|---|------------|-----------------------------------|--|------------------------|----------------------|-------------------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available  |                   |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | similar compounds      | NOAEL not available  |                   |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | similar compounds      | NOAEL not available  |                   |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal       | NOAEL Not available  |                   |
| TERPINEOL   | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available. |                   |
| 1,2-benzisothiazol-3(2H)-one  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available  |                   |

**Specific Target Organ Toxicity - repeated exposure**

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

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|   |            |  |  |       |                        |                       |
|---|------------|--|--|-------|------------------------|-----------------------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Inhalation | liver  | Not classified   | Rat   | NOAEL 6 mg/l           | 13 weeks              |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Inhalation | kidney and/or bladder  | Not classified   | Rat   | LOAEL 1.5 mg/l         | 13 weeks              |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Inhalation | hematopoietic system   | Not classified   | Rat   | NOAEL 6 mg/l           | 13 weeks              |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Ingestion  | liver  | Not classified   | Rat   | NOAEL 1,000 mg/kg/day  | 13 weeks              |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Ingestion  | kidney and/or bladder  | Not classified   | Rat   | LOAEL 100 mg/kg/day    | 13 weeks              |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | Ingestion  | hematopoietic system   eyes  | Not classified   | Rat   | NOAEL 1,000 mg/kg/day  | 13 weeks              |
| White mineral oil (petroleum)   | Ingestion  | hematopoietic system   | Not classified   | Rat   | NOAEL 1,381 mg/kg/day  | 90 days               |
| White mineral oil (petroleum)   | Ingestion  | liver   immune system  | Not classified   | Rat   | NOAEL 1,336 mg/kg/day  | 90 days               |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Inhalation | central nervous system   | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL not available    | occupational exposure |
| Glycerol  | Inhalation | respiratory system   heart   liver   kidney and/or bladder   | Not classified   | Rat   | NOAEL 3.91 mg/l        | 14 days               |
| Glycerol  | Ingestion  | endocrine system   hematopoietic system   liver   kidney and/or bladder  | Not classified   | Rat   | NOAEL 10,000 mg/kg/day | 2 years               |
| Sorbitan monooleate, ethoxylated  | Ingestion  | heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   kidney and/or bladder   respiratory system | Not classified   | Rat   | NOAEL 4,132 mg/kg/day  | 90 days               |
| Synthetic amorphous silica, fumed, crystalline-free                     | Inhalation | respiratory system   silicosis   | Not classified   | Human | NOAEL Not available    | occupational exposure |
| TERPINEOL   | Ingestion  | liver   kidney and/or bladder   hematopoietic system   nervous system  | Not classified   | Rat   | NOAEL 750 mg/kg/day    | 5 weeks               |
| 1,2-benzisothiazol-3(2H)-one  | Ingestion  | liver   hematopoietic system   eyes   kidney and/or bladder   respiratory system   | Not classified   | Rat   | NOAEL 322 mg/kg/day    | 90 days               |
| 1,2-benzisothiazol-3(2H)-one  | Ingestion  | heart   endocrine system   nervous system  | Not classified   | Rat   | NOAEL 150 mg/kg/day    | 28 days               |

**Aspiration Hazard**

| Name   | Value             |
|--|-------------------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Aspiration hazard |
| White mineral oil (petroleum)  | Aspiration hazard |

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|   |                   |
|---|-------------------|
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | Aspiration hazard |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | Aspiration hazard |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 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.

**11.2. Information on other hazards**

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

**SECTION 12: Ecological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**12.1. Toxicity**

No product test data available.

| Material   | CAS #     | Organism      | Type               | Exposure | Test endpoint | Test result |
|--|-----------|---------------|--------------------|----------|---------------|-------------|
| Aluminium oxide  | 1344-28-1 | Fish          | Experimental       | 96 hours | LC50          | >100 mg/l   |
| Aluminium oxide  | 1344-28-1 | Green algae   | Experimental       | 72 hours | EC50          | >100 mg/l   |
| Aluminium oxide  | 1344-28-1 | Water flea    | Experimental       | 48 hours | LC50          | >100 mg/l   |
| Aluminium oxide  | 1344-28-1 | Green algae   | Experimental       | 72 hours | NOEC          | >100 mg/l   |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Green algae   | Experimental       | 72 hours | EL50          | >1,000 mg/l |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Rainbow trout | Experimental       | 96 hours | LL50          | >1,000 mg/l |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Water flea    | Experimental       | 48 hours | EL50          | >1,000 mg/l |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Green algae   | Experimental       | 72 hours | NOEL          | 1,000 mg/l  |
| White mineral oil (petroleum)  | 8042-47-5 | Water flea    | Analogous Compound | 48 hours | EL50          | >100 mg/l   |
| White mineral oil (petroleum)  | 8042-47-5 | Bluegill      | Experimental       | 96 hours | LL50          | >100 mg/l   |
| White mineral oil (petroleum)  | 8042-47-5 | Green algae   | Analogous Compound | 72 hours | NOEL          | 100 mg/l    |
| White mineral oil (petroleum)  | 8042-47-5 | Water flea    | Analogous Compound | 21 days  | NOEL          | >100 mg/l   |
| Glycerol   | 56-81-5   | Bacteria      | Experimental       | 16 hours | NOEC          | 10,000 mg/l |
| Glycerol   | 56-81-5   | Rainbow trout | Experimental       | 96 hours | LC50          | 54,000 mg/l |
| Glycerol   | 56-81-5   | Water flea    | Experimental       | 48 hours | LC50          | 1,955 mg/l  |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes,                         | 919-446-0 | Green algae   | Experimental       | 72 hours | EL50          | 4.1 mg/l    |

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|   |             |                   |                    |          |       |                          |
|---|-------------|-------------------|--------------------|----------|-------|--------------------------|
| cyclics, aromatics (2-25%)  |             |                   |                    |          |       |                          |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 919-446-0   | Rainbow trout     | Experimental       | 96 hours | LL50  | 30 mg/l                  |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 919-446-0   | Water flea        | Experimental       | 48 hours | EL50  | 22 mg/l                  |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 919-446-0   | Green algae       | Experimental       | 72 hours | NOEL  | 0.76 mg/l                |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 919-446-0   | Water flea        | Experimental       | 21 days  | EL10  | 0.316 mg/l               |
| Sorbitan monooleate, ethoxylated  | 9005-65-6   | Green algae       | Analogous Compound | 72 hours | EL50  | 58.84 mg/l               |
| Sorbitan monooleate, ethoxylated  | 9005-65-6   | Zebra Fish        | Analogous Compound | 96 hours | LL50  | >100 mg/l                |
| Sorbitan monooleate, ethoxylated  | 9005-65-6   | Green algae       | Analogous Compound | 72 hours | EL10  | 19.05 mg/l               |
| Sorbitan monooleate, ethoxylated  | 9005-65-6   | Water flea        | Analogous Compound | 21 days  | NOEL  | 10 mg/l                  |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | 918-811-1   | Green algae       | Estimated          | 72 hours | EL50  | 3 mg/l                   |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | 918-811-1   | Rainbow trout     | Estimated          | 96 hours | LL50  | 5 mg/l                   |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | 918-811-1   | Water flea        | Estimated          | 48 hours | EL50  | 10 mg/l                  |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | 918-811-1   | Green algae       | Estimated          | 72 hours | NOEL  | 1 mg/l                   |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 920-114-2   | Activated sludge  | Estimated          | 3 hours  | EC50  | >100 mg/l                |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 920-114-2   | Fish              | Estimated          | 96 hours | LL50  | >1,028 mg/l              |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 920-114-2   | Green algae       | Estimated          | 72 hours | EL50  | >1,000 mg/l              |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 920-114-2   | Water flea        | Estimated          | 48 hours | EL50  | >1,000 mg/l              |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 920-114-2   | Green algae       | Estimated          | 72 hours | NOEL  | 1,000 mg/l               |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 920-114-2   | Water flea        | Estimated          | 21 days  | NOEL  | 5 mg/l                   |
| Synthetic amorphous silica, fumed, crystalline-free                     | 112945-52-5 | Green algae       | Analogous Compound | 72 hours | ErC50 | >173.1 mg/l              |
| Synthetic amorphous silica, fumed, crystalline-free                     | 112945-52-5 | Sediment organism | Analogous Compound | 96 hours | EC50  | 8,500 mg/kg (Dry Weight) |
| Synthetic amorphous silica, fumed, crystalline-free                     | 112945-52-5 | Water flea        | Analogous Compound | 24 hours | EL50  | >10,000 mg/l             |
| Synthetic amorphous silica, fumed, crystalline-free                     | 112945-52-5 | Zebra Fish        | Analogous Compound | 96 hours | LL50  | >10,000 mg/l             |

|   |             |                   |                    |          |       |                             |
|---|-------------|-------------------|--------------------|----------|-------|-----------------------------|
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Green algae       | Analogous Compound | 72 hours | NOEC  | 173.1 mg/l                  |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Water flea        | Analogous Compound | 21 days  | NOEC  | 68 mg/l                     |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Activated sludge  | Experimental       | 3 hours  | EC50  | >1,000 mg/l                 |
| Alcohols, C16-18 and C18-unsatd.                    | 68002-94-8  | Water flea        | Experimental       | 48 hours | EC50  | 70 mg/l                     |
| TERPINEOL   | 8000-41-7   | Green algae       | Experimental       | 72 hours | ErC50 | 68 mg/l                     |
| TERPINEOL   | 8000-41-7   | Water flea        | Experimental       | 48 hours | LC50  | 73 mg/l                     |
| TERPINEOL   | 8000-41-7   | Zebra Fish        | Experimental       | 96 hours | LC50  | 62 mg/l                     |
| TERPINEOL   | 8000-41-7   | Green algae       | Experimental       | 72 hours | NOEC  | 3.9 mg/l                    |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Green algae       | Experimental       | 72 hours | ErC50 | 0.11 mg/l                   |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Rainbow trout     | Experimental       | 96 hours | LC50  | 1.6 mg/l                    |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Sheepshead Minnow | Experimental       | 96 hours | LC50  | 16.7 mg/l                   |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Water flea        | Experimental       | 48 hours | EC50  | 2.9 mg/l                    |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Green algae       | Experimental       | 72 hours | NOEC  | 0.0403 mg/l                 |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Activated sludge  | Experimental       | 3 hours  | EC50  | 12.8 mg/l                   |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Bobwhite quail    | Experimental       | 14 days  | LD50  | 617 mg per kg of bodyweight |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Cabbage           | Experimental       | 14 days  | EC50  | 200 mg/kg (Dry Weight)      |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Redworm           | Experimental       | 14 days  | LC50  | >410.6 mg/kg (Dry Weight)   |
| 1,2-benzisothiazol-3(2H)-one                        | 2634-33-5   | Soil microbes     | Experimental       | 28 days  | EC50  | >811.5 mg/kg (Dry Weight)   |

## 12.2. Persistence and degradability

| Material  | CAS Nbr     | Test type                         | Duration | Study Type    | Test result                        | Protocol                            |
|---|-------------|-----------------------------------|----------|---------------|------------------------------------|-------------------------------------|
| Aluminium oxide   | 1344-28-1   | Data not available-insufficient   | N/A      | N/A           | N/A                                | N/A                                 |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | 926-141-6   | Experimental Biodegradation       | 28 days  | BOD           | 69 %BOD/ThOD                       | OECD 301F - Manometric respirometry |
| White mineral oil (petroleum)   | 8042-47-5   | Experimental Biodegradation       | 28 days  | CO2 evolution | 0 %CO2 evolution/THC O2 evolution  | OECD 301B - Modified Sturm or CO2   |
| Glycerol  | 56-81-5     | Experimental Biodegradation       | 14 days  | BOD           | 63 %BOD/ThOD                       | OECD 301C - MITI test (I)           |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 919-446-0   | Analogous Compound Biodegradation | 28 days  | BOD           | 74.7 %BOD/ThOD                     | OECD 301F - Manometric respirometry |
| Sorbitan monooleate, ethoxylated  | 9005-65-6   | Experimental Biodegradation       | 28 days  | CO2 evolution | 61 %CO2 evolution/THC O2 evolution | ISO 14593 Inorg C Headspace         |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | 918-811-1   | Experimental Biodegradation       | 28 days  | BOD           | 49.6 %BOD/ThOD                     | OECD 301F - Manometric respirometry |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 920-114-2   | Estimated Biodegradation          | 28 days  | BOD           | 82 %BOD/ThOD                       | OECD 301F - Manometric respirometry |
| Synthetic amorphous silica, fumed, crystalline-free                     | 112945-52-5 | Data not available-insufficient   | N/A      | N/A           | N/A                                | N/A                                 |



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|                                  |            |  |         |                                |                                    |                                |
|----------------------------------|------------|--|---------|--------------------------------|------------------------------------|--------------------------------|
| Alcohols, C16-18 and C18-unsatd. | 68002-94-8 | Experimental Biodegradation              | 28 days | BOD                            | 87 %BOD/ThO D                      | OECD 301D - Closed bottle test |
| TERPINEOL                        | 8000-41-7  | Experimental Biodegradation              | 28 days | CO2 evolution                  | 80 %CO2 evolution/THC O2 evolution | OECD 310 CO2 Headspace         |
| 1,2-benzisothiazol-3(2H)-one     | 2634-33-5  | Experimental Biodegradation              | 28 days | BOD                            | 0 %BOD/ThO D                       | OECD 301C - MITI test (I)      |
| 1,2-benzisothiazol-3(2H)-one     | 2634-33-5  | Experimental Aquatic Inherent Biodegrad. | 34 days | Dissolv. Organic Carbon Deplet | 17 %removal of DOC                 | OECD 302A - Modified SCAS Test |
| 1,2-benzisothiazol-3(2H)-one     | 2634-33-5  | Experimental Biodegradation              | 21 days | Dissolv. Organic Carbon Deplet | 80 %removal of DOC                 | OECD 303A - Simulated Aerobic  |
| 1,2-benzisothiazol-3(2H)-one     | 2634-33-5  | Experimental Biodegradation              |         | Half-life (t 1/2)              | 4 hours (t 1/2)                    |                                |
| 1,2-benzisothiazol-3(2H)-one     | 2634-33-5  | Experimental Hydrolysis                  |         | Hydrolytic half-life           | >1 years (t 1/2)                   | OECD 111 Hydrolysis func of pH |

**12.3 : Bioaccumulative potential**

| Material  | Cas No.     | Test type   | Duration | Study Type             | Test result | Protocol                       |
|---|-------------|---|----------|------------------------|-------------|--------------------------------|
| Aluminium oxide   | 1344-28-1   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics    | 926-141-6   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| White mineral oil (petroleum)   | 8042-47-5   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Glycerol  | 56-81-5     | Experimental Bioconcentration                         |          | Log Kow                | -1.76       |                                |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 919-446-0   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Sorbitan monooleate, ethoxylated  | 9005-65-6   | Modeled Bioconcentration                              |          | Bioaccumulation factor | 5           | Catalogic™                     |
| Sorbitan monooleate, ethoxylated  | 9005-65-6   | Modeled Bioconcentration                              |          | Log Kow                | 5.61        | Episuite™                      |
| Hydrocarbons, C10 aromatics, <1% naphthalene                            | 918-811-1   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics               | 920-114-2   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Synthetic amorphous silica, fumed, crystalline-free                     | 112945-52-5 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Alcohols, C16-18 and C18-unsatd.  | 68002-94-8  | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| TERPINEOL   | 8000-41-7   | Experimental Bioconcentration                         |          | Log Kow                | 2.6         | OECD 117 log Kow HPLC method   |
| 1,2-benzisothiazol-3(2H)-one  | 2634-33-5   | Experimental BCF - Fish                               | 56 days  | Bioaccumulation factor | 6.62        | similar to OECD 305            |
| 1,2-benzisothiazol-3(2H)-one  | 2634-33-5   | Experimental Bioconcentration                         |          | Log Kow                | 1.45        | OECD 107 log Kow shke flsk mtd |

**12.4. Mobility in soil**

| Material                         | Cas No.   | Test type                  | Study Type | Test result | Protocol                  |
|----------------------------------|-----------|----------------------------|------------|-------------|---------------------------|
| Glycerol                         | 56-81-5   | Estimated Mobility in Soil | Koc        | <1 l/kg     | Episuite™                 |
| Sorbitan monooleate, ethoxylated | 9005-65-6 | Modeled Mobility in Soil   | Koc        | 810 l/kg    | Episuite™                 |
| 1,2-benzisothiazol-3(2H)-one     | 2634-33-5 | Experimental               | Koc        | 9.33 l/kg   | OECD 121 Estim. of Koc by |

|     |  |                  |  |  |      |
|-----|--|------------------|--|--|------|
| one |  | Mobility in Soil |  |  | HPLC |
|-----|--|------------------|--|--|------|

**12.5. Results of the PBT and vPvB assessment**

This material does not contain any substances that are assessed to be a PBT or vPvB

**12.6. Endocrine disrupting properties**

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

**EU waste code (product as sold)**

120109\* Machining emulsions and solutions free of halogens

**SECTION 14: Transportation information**

Not hazardous for transportation.

|  | <b>Ground Transport (ADR)</b> | <b>Air Transport (IATA)</b> | <b>Marine Transport (IMDG)</b> |
|--|-------------------------------|-----------------------------|--------------------------------|
| <b>14.1 UN number or ID number</b>     | No data available.            | No data available.          | No data available.             |
| <b>14.2 UN proper shipping name</b>    | No data available.            | No data available.          | No data available.             |
| <b>14.3 Transport hazard class(es)</b> | No data available.            | No data available.          | No data available.             |
| <b>14.4 Packing group</b>              | No data available.            | No data available.          | No data available.             |

|   |  |  |  |
|---|--|--|--|
| <b>14.5 Environmental hazards</b>                                 | No data available.   | No data available.   | No data available.   |
| <b>14.6 Special precautions for user</b>                          | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| <b>14.7 Marine Transport in bulk according to IMO instruments</b> | No data available.   | No data available.   | No data available.   |
| <b>Control Temperature</b>  | No data available.   | No data available.   | No data available.   |
| <b>Emergency Temperature</b>                                      | No data available.   | No data available.   | No data available.   |
| <b>ADR Classification Code</b>                                    | No data available.   | No data available.   | No data available.   |
| <b>IMDG Segregation Code</b>                                      | No data available.   | No data available.   | No data available.   |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## 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.

#### DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

None

#### Regulation (EU) No 649/2012

No chemicals listed

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

## SECTION 16: Other information

### List of relevant H statements

|        |  |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking.                              |
| H226   | Flammable liquid and vapour.   |
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                                      |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.   |
| H318   | Causes serious eye damage.   |
| H319   | Causes serious eye irritation.   |
| H330   | Fatal if inhaled.  |
| H336   | May cause drowsiness or dizziness.   |
| H361f  | Suspected of damaging fertility.   |
| H372   | Causes damage to organs through prolonged or repeated exposure.                    |
| H373   | May cause damage to organs through prolonged or repeated exposure: nervous system. |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.                              |
| H411   | Toxic to aquatic life with long lasting effects.                                   |
| H412   | Harmful to aquatic life with long lasting effects.                                 |

**Revision information:**

- Section 3: Composition/ Information of ingredients table information was modified.
- Section 03: SCL table information was modified.
- Section 04: First Aid - Symptoms and Effects (CLP) information was modified.
- Section 7: Precautions safe handling information information was modified.
- Section 8: glove data value information was deleted.
- Section 8: glove data value information was modified.
- Section 8: Occupational exposure limit table information was modified.
- Section 9: Flammability (solid, gas) information information was deleted.
- Section 09: Flammability information information was added.
- Section 09: Odor information was modified.
- Section 09: Particle Characteristics N/A information was added.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Carcinogenicity Table information was modified.
- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: Health Effects - Ingestion information information was modified.
- Section 11: Health Effects - Inhalation information information was modified.
- Section 11: Reproductive Toxicity Table information was modified.
- Section 11: Reproductive/developmental effects information information was added.
- Section 11: Serious Eye Damage/Irritation Table information was modified.
- Section 11: Skin Corrosion/Irritation Table information was modified.
- Section 11: Skin Sensitization Table information was modified.
- Section 11: Target Organs - Repeated Table information was modified.
- Section 11: Target Organs - Single Table information was modified.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Mobility in soil information information was modified.
- Section 12: Persistence and Degradability information information was modified.
- Section 12: Bioaccumulative potential information information was modified.
- Section 15: Seveso Substance Text information was deleted.
- Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

**Annex**

|                                 |   |
|---------------------------------|---|
| <b>1. Title</b>                 |   |
| <b>Substance identification</b> | Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics; |

|   |  |
|---|--|
|   | EC No. 926-141-6;  |
| <b>Exposure Scenario Name</b>                                 | Professional Use of Coatings   |
| <b>Lifecycle Stage</b>  | Widespread use by professional workers   |
| <b>Contributing activities</b>                                | PROC 10 -Roller application or brushing<br>ERC 08a -Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)<br>ERC 08d -Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)   |
| <b>Processes, tasks and activities covered</b>                | Application of product.  |
| <b>2. Operational conditions and risk management measures</b> |  |
| <b>Operating Conditions</b>                                   | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Duration of exposure per day at workplace [for one worker]: 8 hours/day;<br>Emission days per year: 300 days per year;<br>Frequency of exposure at workplace [for one worker]: Daily;<br>Indoor use;<br>Outdoor use; |
| <b>Risk management measures</b>                               | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>None needed;<br><b>Environmental:</b><br>None needed;  |
| <b>Waste management measures</b>                              | Avoid release to the environment. Refer to special instructions / safety data sheet.;  |
| <b>3. Prediction of exposure</b>                              |  |
| <b>Prediction of exposure</b>                                 | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.   |

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