



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™ Perfect-it III 51052 Fast Cut XL

Product Identification Numbers

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| GC-8010-5059-9 | GC-8010-5060-7 | GC-8010-5202-5 | UU-0016-6336-6 | UU-0109-4375-9 |
| 7000085161 | 7000085160 | 7000085241 | 7100057778 | 7100230013 |

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

Identified uses

Automotive., Industrial use.

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
E Mail: tox.uk@mmm.com
Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

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:

Skin Sensitization, Category 1 - Skin Sens. 1; H317

For full text of H phrases, see Section 16.

2.2. Label elements**CLP REGULATION (EC) No 1272/2008****SIGNAL WORD**

WARNING.

Symbols

GHS07 (Exclamation mark) |

Pictograms**Ingredients:**

| Ingredient | CAS Nbr | EC No. | % by Wt |
|------------------------------|-----------|-----------|-------------|
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 | 0.01 - 0.05 |

HAZARD STATEMENTS:

H317 May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS**General:**

P102 Keep out of reach of children.

Prevention:

P280E Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

SUPPLEMENTAL INFORMATION:**Supplemental Hazard Statements:**

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

None known.

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] |
|--|--|-------------|--|
| Non-Hazardous Ingredients | Mixture | 40 - 80 | Substance not classified as hazardous |
| Aluminium oxide | (CAS-No.) 1344-28-1 (EC-No.) 215-691-6 | 10 - 30 | Substance with a national occupational exposure limit |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | (EC-No.) 926-141-6 (REACH-No.) 01-2119456620-43 | 10 - 25 | Asp. Tox. 1, H304 EUH066 |
| Triethanolamine | (CAS-No.) 102-71-6 (EC-No.) 203-049-8 (REACH-No.) 01-2119486482-31 | < 1.5 | Substance not classified as hazardous |
| Glycerol | (CAS-No.) 56-81-5 (EC-No.) 200-289-5 | 1 - 10 | Substance with a national occupational exposure limit |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | (EC-No.) 920-114-2 (REACH-No.) 01-2119459347-30 | 1 - 10 | Asp. Tox. 1, H304 EUH066 |
| White mineral oil (petroleum) | (CAS-No.) 8042-47-5 (EC-No.) 232-455-8 | 1 - 5 | Asp. Tox. 1, H304 |
| Castor oil | (CAS-No.) 8001-79-4 (EC-No.) 232-293-8 | < 3 | Substance not classified as hazardous |
| Sorbitan monooleate, ethoxylated | Trade Secret | < 3 | Substance not classified as hazardous |
| 1,2-benzisothiazol-3(2H)-one | (CAS-No.) 2634-33-5 (EC-No.) 220-120-9 | 0.01 - 0.05 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400, M=10 |

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 (EC-No.) 220-120-9 | (C ≥ 0.05%) Skin Sens. 1, 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

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

Eye contact

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

If swallowed

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

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

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. 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.
Irritant vapours or gases.

Condition

During combustion.
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

For industrial/occupational use only. Not for consumer sale or use. Keep out of reach of children. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. 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.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|-------------------|----------------|---------------|--|----------------------------|
| Aluminium oxide | 1344-28-1 | UK HSC | TWA(as respirable dust):4 mg/m ³ ;TWA(as inhalable dust):10 mg/m ³ | |
| Glycerol | 56-81-5 | UK HSC | TWA(as mist):10 mg/m ³ | |

UK HSC : UK Health and Safety Commission

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 UK HSC

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 | >0.30 | 4-8 hours |

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards

Use gloves tested to EN 374

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

Respiratory protection

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

Half facepiece or full facepiece air-purifying respirator suitable for organic 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: | White liquid paste |
| Colour | White |
| Odor | Slight Hydrocarbon |
| Odour threshold | No data available. |
| Melting point/freezing point | No data available. |
| Boiling point/boiling range | No data available. |
| Flammability (solid, gas) | Not applicable. |

| | |
|--|-----------------------------------|
| Flammable Limits(LEL) | No data available. |
| Flammable Limits(UEL) | No data available. |
| Flash point | >=120 °C [Test Method:Closed Cup] |
| Autoignition temperature | No data available. |
| Decomposition temperature | No data available. |
| pH | 8 - 9 |
| Kinematic Viscosity | 30,973.4513274336 mm²/sec |
| Water solubility | Slight (less than 10%) |
| Solubility- non-water | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Vapour pressure | No data available. |
| Density | 1.05 - 1.21 g/ml |
| Relative density | 1.05 - 1.21 [Ref Std:WATER=1] |
| Relative Vapor Density | No data available. |

9.2. Other information

9.2.2 Other safety characteristics

| | |
|-------------------------------|------------------------------|
| EU Volatile Organic Compounds | 20 % |
| Evaporation rate | No data available. |
| Percent volatile | 16 % [Test Method:Estimated] |

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

10.5 Incompatible materials

Alkali and alkaline earth metals.

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not 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.

Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

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

Ingestion

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

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 | Inhalation-Vapour | Professional judgement | LC50 estimated to be 20 - 50 mg/l |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Ingestion | Rat | LD50 > 5,000 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 |
| Glycerol | Dermal | Rabbit | LD50 estimated to be > 5,000 mg/kg |
| Glycerol | Ingestion | Rat | LD50 > 5,000 mg/kg |
| White mineral oil (petroleum) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| White mineral oil (petroleum) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 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 |
| Castor oil | Dermal | | LD50 estimated to be > 5,000 |
| Castor oil | Ingestion | | LD50 estimated to be > 5,000 |
| Triethanolamine | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Triethanolamine | Ingestion | Rat | LD50 9,000 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 | Rabbit | Minimal irritation |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | Rabbit | No significant irritation |
| Glycerol | Rabbit | No significant irritation |
| White mineral oil (petroleum) | Rabbit | No significant irritation |
| Sorbitan monooleate, ethoxylated | Rabbit | No significant irritation |
| Castor oil | Human | Minimal irritation |
| Triethanolamine | Rabbit | Minimal irritation |
| 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 | Rabbit | Mild irritant |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | Rabbit | Mild irritant |
| Glycerol | Rabbit | No significant irritation |
| White mineral oil (petroleum) | Rabbit | Mild irritant |
| Sorbitan monooleate, ethoxylated | Rabbit | No significant irritation |
| Castor oil | Rabbit | Mild irritant |
| Triethanolamine | Rabbit | Mild irritant |
| 1,2-benzisothiazol-3(2H)-one | Rabbit | Corrosive |

Skin Sensitisation

| Name | Species | Value |
|--|------------|----------------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Guinea pig | Not classified |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | Guinea pig | Not classified |
| Glycerol | Guinea pig | Not classified |
| White mineral oil (petroleum) | Guinea pig | Not classified |
| Sorbitan monooleate, ethoxylated | Guinea pig | Not classified |
| Castor oil | Human | Not classified |
| Triethanolamine | Human | 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 |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | In vivo | Not mutagenic |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | In Vitro | Not mutagenic |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | In vivo | Not mutagenic |
| White mineral oil (petroleum) | In Vitro | Not mutagenic |
| Sorbitan monooleate, ethoxylated | In Vitro | Not mutagenic |
| Castor oil | In Vitro | Not mutagenic |
| Castor oil | In vivo | Not mutagenic |
| Triethanolamine | In Vitro | Not mutagenic |
| Triethanolamine | In vivo | 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 |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not available | Not carcinogenic |
| Glycerol | Ingestion | Mouse | Some positive data exist, but the data are not sufficient for classification |
| White mineral oil (petroleum) | Dermal | Mouse | Not carcinogenic |
| White mineral oil (petroleum) | Inhalation | Multiple animal species | Not carcinogenic |
| Sorbitan monooleate, ethoxylated | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| Triethanolamine | Dermal | Multiple animal species | Not carcinogenic |
| Triethanolamine | Ingestion | 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 |
|--|----------------|--|---------|-----------------------|--------------------------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for female reproduction | Rat | NOAEL Not available | 1 generation |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for male reproduction | Rat | NOAEL Not available | 1 generation |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not classified for development | Rat | NOAEL Not available | 1 generation |
| 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 |
| Glycerol | Ingestion | Not classified for female reproduction | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Glycerol | Ingestion | Not classified for male reproduction | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Glycerol | Ingestion | Not classified for development | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| White mineral oil (petroleum) | Ingestion | Not classified for female reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| White mineral oil (petroleum) | Ingestion | Not classified for male reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |

| | | | | | |
|----------------------------------|-----------|--|-------|-----------------------------|-------------------------|
| White mineral oil (petroleum) | Ingestion | Not classified for development | Rat | NOAEL 4,350 mg/kg/day | during gestation |
| Sorbitan monooleate, ethoxylated | Ingestion | Not classified for female reproduction | Rat | NOAEL 6,666 mg/kg/day | 3 generation |
| Sorbitan monooleate, ethoxylated | Ingestion | Not classified for male reproduction | Rat | NOAEL 6,666 mg/kg/day | 3 generation |
| Sorbitan monooleate, ethoxylated | Ingestion | Not classified for development | Rat | NOAEL 5,000 mg/kg/day | during organogenesis |
| Triethanolamine | Ingestion | Not classified for development | Mouse | NOAEL 1,125 mg/kg/day | during organogenesis |
| 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 |
|------------------------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| 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 |
| 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 |
| 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 |
| 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 |
| Castor oil | Ingestion | heart hematopoietic | Not classified | Rat | NOAEL 4,800 | 13 weeks |

| | | system liver | | | mg/kg/day | |
|------------------------------|-----------|--|--|-------------------------|------------------------|----------|
| Castor oil | Ingestion | kidney and/or bladder | Not classified | Mouse | NOAEL 13,000 mg/kg/day | 13 weeks |
| Triethanolamine | Dermal | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,000 mg/kg/day | 2 years |
| Triethanolamine | Dermal | liver | Not classified | Mouse | NOAEL 4,000 mg/kg/day | 13 weeks |
| Triethanolamine | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 1,000 mg/kg/day | 2 years |
| Triethanolamine | Ingestion | liver | Not classified | Guinea pig | NOAEL 1,600 mg/kg/day | 24 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 |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | Aspiration hazard |
| White mineral oil (petroleum) | Aspiration hazard |

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

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 |
| Triethanolamine | 102-71-6 | Activated sludge | Experimental | 3 hours | IC50 | >1,000 mg/l |
| Triethanolamine | 102-71-6 | Fathead minnow | Experimental | 96 hours | LC50 | 11,800 mg/l |
| Triethanolamine | 102-71-6 | Green algae | Experimental | 72 hours | EC50 | 512 mg/l |
| Triethanolamine | 102-71-6 | Water flea | Experimental | 48 hours | EC50 | 609.98 mg/l |
| Triethanolamine | 102-71-6 | Green Algae | Experimental | 72 hours | EC10 | 26 mg/l |
| Triethanolamine | 102-71-6 | Water flea | Experimental | 21 days | NOEC | 16 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, 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 |
| White mineral oil (petroleum) | 8042-47-5 | Water flea | Estimated | 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 | Estimated | 72 hours | NOEL | 100 mg/l |
| White mineral oil (petroleum) | 8042-47-5 | Water flea | Estimated | 21 days | NOEL | >100 mg/l |
| Castor oil | 8001-79-4 | Bacteria | Estimated | 16 hours | NOEC | 10,000 mg/l |
| Castor oil | 8001-79-4 | Zebra Fish | Estimated | 96 hours | LC50 | >100 mg/l |
| Sorbitan monooleate, ethoxylated | Trade Secret | Copepods | Estimated | 48 hours | LL50 | >10,000 mg/l |
| Sorbitan monooleate, ethoxylated | Trade Secret | Green Algae | Estimated | 72 hours | EL50 | 58.84 mg/l |
| Sorbitan monooleate, ethoxylated | Trade Secret | Zebra Fish | Estimated | 96 hours | LC50 | >100 mg/l |
| Sorbitan monooleate, ethoxylated | Trade Secret | Green Algae | Estimated | 72 hours | EC10 | 19.05 mg/l |

| | | | | | | |
|----------------------------------|--------------|----------------|--------------|----------|------|-----------------------------|
| Sorbitan monooleate, ethoxylated | Trade Secret | Water flea | Estimated | 21 days | NOEL | 10 mg/l |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | Green algae | Experimental | 72 hours | EC50 | 0.11 mg/l |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | Pacific oyster | Experimental | 48 hours | EC50 | 0.062 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 | 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 | Bobwhite quail | Experimental | 14 days | LD50 | 617 mg per kg of bodyweight |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|--------------|-------------------------------|----------|--------------------------------|----------------|-------------------------------------|
| Aluminium oxide | 1344-28-1 | Data not availbl-insufficient | | | N/A | |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6 | Experimental Biodegradation | 28 days | BOD | 69 % BOD/ThBOD | OECD 301F - Manometric respirometry |
| Triethanolamine | 102-71-6 | Experimental Biodegradation | 19 days | Dissolv. Organic Carbon Deplet | 96 % weight | Non-standard method |
| Glycerol | 56-81-5 | Experimental Biodegradation | 14 days | BOD | 63 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics | 920-114-2 | Estimated Biodegradation | 28 days | BOD | 82 % BOD/ThBOD | OECD 301F - Manometric respirometry |
| White mineral oil (petroleum) | 8042-47-5 | Experimental Biodegradation | 28 days | CO2 evolution | 0 % weight | OECD 301B - Modified sturm or CO2 |
| Castor oil | 8001-79-4 | Estimated Biodegradation | 28 days | BOD | 64 % weight | OECD 301D - Closed bottle test |
| Sorbitan monooleate, ethoxylated | Trade Secret | Experimental Biodegradation | 28 days | CO2 evolution | 61 % weight | Non-standard method |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | Experimental Biodegradation | 28 days | BOD | 0 % BOD/ThBOD | OECD 301C - MITI test (I) |

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 |
| Triethanolamine | 102-71-6 | Experimental BCF-Carp | 42 days | Bioaccumulation factor | <3.9 | Non-standard method |
| Glycerol | 56-81-5 | Experimental Bioconcentration | | Log Kow | -1.76 | Non-standard method |
| 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 |
| White mineral oil (petroleum) | 8042-47-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Castor oil | 8001-79-4 | Estimated Bioconcentration | | Bioaccumulation factor | 7.4 | Estimated: Bioconcentration factor |
| Sorbitan monooleate, ethoxylated | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | Experimental BCF - Bluegill | 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 flask 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™ |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | Experimental Mobility in Soil | Koc | ERROR: Length cannot be greater than the length of the string. | OECD 121 Estim. of Koc by 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)

| | |
|--------|--|
| 080112 | Waste paint and varnish other than those mentioned in 08 01 11 |
| 120199 | Wastes not otherwise specified |

SECTION 14: Transportation information

Not hazardous for transportation.

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|----------------|------------------------|----------------------|-------------------------|
| 14.1 UN number | No data available. | No data available. | No data available. |

| | | | |
|--|--|--|--|
| 14.2 UN proper shipping name | No data available. | No data available. | No data available. |
| 14.3 Transport hazard class(es) | No data available. | No data available. | No data available. |
| 14.4 Packing group | No data available. | No data available. | No data available. |
| 14.5 Environmental hazards | No data available. | No data available. | No data available. |
| 14.6 Special precautions for user | 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. |
| 14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |
| ADR Tunnel Code | No data available. | Not applicable. | No data available. |
| ADR Classification Code | No data available. | No data available. | No data available. |
| ADR Transport Category | No data available. | No data available. | No data available. |
| ADR Multiplier | No data available. | No data available. | No data available. |
| IMDG Segregation Code | 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

Carcinogenicity

Ingredient

Triethanolamine

CAS Nbr

102-71-6

Classification

Gr. 3: Not classifiable

Regulation

International Agency
for Research on Cancer

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 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.

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. |
| 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. |
| H400 | Very toxic to aquatic life. |

Revision information:

Section 3: Composition/ Information of ingredients table information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12:Biocumulative potential information information was modified.

Annex

| | |
|---|--|
| 1. Title | |
| Substance identification | Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics; EC No. 926-141-6; |
| Exposure Scenario Name | Professional Use of Coatings |
| Lifecycle Stage | Widespread use by professional workers |
| Contributing activities | PROC 10 -Roller application or brushing ERC 08a -Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC 08d -Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) |
| Processes, tasks and activities covered | Application of product. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state: Liquid. General operating conditions: Duration of exposure per day at workplace [for one worker]: 8 hours/day; Emission days per year: 300 days per year; Frequency of exposure at workplace [for one worker]: Daily; Indoor use; |

| | |
|----------------------------------|---|
| | Outdoor use; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: None needed; Environmental: None needed; |
| Waste management measures | Avoid release to the environment. Refer to special instructions / safety data sheet.; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

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

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