# Safety Data Sheet



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|---|---|---|---|
| **Document group:** | 42-2336-8 | **Version number:** | 2.00 |
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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

## SECTION 1: Identification

### 1.1. Product identifier
3M™ Perfect-It™ Random Orbital Compound, 34130, 34131, 34132

**Product Identification Numbers**
60-4551-1436-7

### 1.2. Recommended use and restrictions on use

**Recommended use**
Automotive

For Industrial or Professional use only.

### 1.3. Supplier's details
**Address:** 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113
**Telephone:** 136 136
**E Mail:** productinfo.au@mmm.com
**Website:** www.3m.com.au

### 1.4. Emergency telephone number
EMERGENCY: 1800 097 146 (Australia only)

## SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

### 2.1. Classification of the substance or mixture
Specific Target Organ Toxicity (single exposure): Category 3

### 2.2. Label elements
The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

**Signal word**
Warning

**Symbols**
Exclamation mark |

**Pictograms**

**Hazard statements**

| | |
|---|---|
| H336 | May cause drowsiness or dizziness. |

**Precautionary statements**
**General:**

| | |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |

**Prevention:**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |

**Response:**

| | |
|---|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell. |

**Storage:**

| | |
|---|---|
| P405 | Store locked up. |

**Disposal:**

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

**2.3. Other assigned/identified product hazards**
Aspiration classification does not apply due to the viscosity of the product.

**2.4. Other hazards which do not result in classification**
Causes mild skin irritation.
Harmful to aquatic life.
Toxic to aquatic life with long lasting effects.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | CAS Nbr | % by Weight |
|---|---|---|
| Water | 7732-18-5 | 45 - 70 |
| Hydrotreated Heavy Naphtha (Petroleum) | 64742-48-9 | 10 - 30 |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | 7 - 13 |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | 3 - 7 |
| White mineral oil (petroleum) | 8042-47-5 | 1 - 5 |

| | | |
|---|---|---|
| Plant Oil | Trade Secret | 1 - 5 |
| Glycerin | 56-81-5 | 1 - 5 |
| Triethanolamine | 102-71-6 | 0.5 - 1.5 |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | < 0.03 |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | < 0.002 |

## 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**

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
Use a fire fighting agent suitable for the surrounding fire.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product.

**5.3. Special protective actions for fire-fighters**
No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent

material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Keep container tightly closed.

## 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 |
|---|---|---|---|---|
| Triethanolamine | 102-71-6 | ACGIH | TWA:5 mg/m3 | |
| Triethanolamine | 102-71-6 | Australia OELs | TWA(8 hours):5 mg/m3 | |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Australia OELs | TWA(Inspirable dust)(8 hours):10 mg/m3 | |
| Aluminum, insoluble compounds | 1344-28-1 | ACGIH | TWA(respirable fraction):1 mg/m3 | A4: Not class. as human carcin |
| Glycerin | 56-81-5 | Australia OELs | TWA(Inspirable dust)(8 hours):10 mg/m3 | |
| MINERAL OILS, HIGHLY-REFINED OILS | 8042-47-5 | ACGIH | TWA(inhalable fraction):5 mg/m3 | A4: Not class. as human carcin |
| Paraffin oil | 8042-47-5 | Australia OELs | TWA(as mist)(8 hours):5 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling
Sen: Sensitiser
Sk: Absorption through the skin may be a significant source of exposure.

**8.2. Exposure controls**

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

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

**Eye/face protection**

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

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

**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. When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of nitrile rubber are recommended. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

Select and use gloves according to AS/NZ 2161.

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours

For questions about suitability for a specific application, consult with your respirator manufacturer.
Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

# SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid. |
| **Colour** | White |
| **Odour** | Acidic |
| **Odour threshold** | *No data available.* |
| **pH** | 8.2 - 8.7 |
| **Melting point/Freezing point** | *No data available.* |
| **Boiling point/Initial boiling point/Boiling range** | *No data available.* |
| **Flash point** | No flash point |
| **Evaporation rate** | *No data available.* |
| **Flammability (solid, gas)** | Not applicable. |
| **Flammable Limits(LEL)** | *No data available.* |
| **Flammable Limits(UEL)** | *No data available.* |
| **Vapour pressure** | *No data available.* |
| **Vapor Density and/or Relative Vapor Density** | *No data available.* |
| **Density** | 1 kg/l |
| **Relative density** | 1.01 [*Ref Std:*WATER=1] |
| **Water solubility** | *No data available.* |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |

| | |
|---|---|
| **Viscosity/Kinematic Viscosity** | 30,000 - 40,000 mPa-s [*Test Method:*Brookfield] |
| **Volatile organic compounds (VOC)** | 17 % weight [*Test Method:*calculated per CARB title 2] |
| **Percent volatile** | *No data available.* |
| **VOC less H2O & exempt solvents** | 515 g/l [*Test Method:*calculated SCAQMD rule 443.1] |
| **Molecular weight** | *Not applicable.* |

## SECTION 10: Stability and reactivity

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

**10.2 Chemical stability**
Stable.

**10.3. Conditions to avoid**
Not determined

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

**10.5 Incompatible materials**
Not determined

**10.6 Hazardous decomposition products**

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

## SECTION 11: Toxicological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.**

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

**Inhalation**
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 localized redness, swelling, itching, and dryness.

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

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

**Additional Health Effects:**

**Single exposure may cause target organ effects:**
Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**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 |
| Hydrotreated Heavy Naphtha (Petroleum) | Inhalation-Vapour | Professional judgement | LC50 estimated to be 20 - 50 mg/l |
| Hydrotreated Heavy Naphtha (Petroleum) | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Hydrotreated Heavy Naphtha (Petroleum) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Aluminum Oxide (non-fibrous) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Aluminum Oxide (non-fibrous) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 2.3 mg/l |
| Aluminum Oxide (non-fibrous) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Hydrotreated Light Petroleum Distillates | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Hydrotreated Light Petroleum Distillates | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 3 mg/l |
| Hydrotreated Light Petroleum Distillates | Ingestion | Rat | LD50 > 5,000 mg/kg |
| White mineral oil (petroleum) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| White mineral oil (petroleum) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Glycerin | Dermal | Rabbit | LD50 estimated to be > 5,000 mg/kg |
| Glycerin | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Plant Oil | Dermal | | LD50 estimated to be > 5,000 |
| Plant 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 |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Dermal | Rabbit | LD50 87 mg/kg |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.171 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Rat | LD50 40 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | Rabbit | Mild irritant |
| Aluminum Oxide (non-fibrous) | Rabbit | No significant irritation |

| | | |
|---|---|---|
| Hydrotreated Light Petroleum Distillates | Rabbit | Mild irritant |
| White mineral oil (petroleum) | Rabbit | No significant irritation |
| Glycerin | Rabbit | No significant irritation |
| Plant Oil | Human | Minimal irritation |
| Triethanolamine | Rabbit | Minimal irritation |
| 1,2-Benzisothiazol-3(2H)-one | Rabbit | No significant irritation |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Rabbit | Corrosive |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | Rabbit | Mild irritant |
| Aluminum Oxide (non-fibrous) | Rabbit | No significant irritation |
| Hydrotreated Light Petroleum Distillates | Rabbit | Mild irritant |
| White mineral oil (petroleum) | Rabbit | Mild irritant |
| Glycerin | Rabbit | No significant irritation |
| Plant Oil | Rabbit | Mild irritant |
| Triethanolamine | Rabbit | Mild irritant |
| 1,2-Benzisothiazol-3(2H)-one | Rabbit | Corrosive |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Rabbit | Corrosive |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | Guinea pig | Not classified |
| Hydrotreated Light Petroleum Distillates | Guinea pig | Not classified |
| White mineral oil (petroleum) | Guinea pig | Not classified |
| Glycerin | Guinea pig | Not classified |
| Plant Oil | Human | Not classified |
| Triethanolamine | Human | Not classified |
| 1,2-Benzisothiazol-3(2H)-one | Guinea pig | Sensitising |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Human and animal | Sensitising |

**Photosensitisation**

| Name | Species | Value |
|---|---|---|
| 5-chloro-2-methyl-4-isothiazoline-3-one | Human and animal | Not sensitizing |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | In Vitro | Not mutagenic |
| Hydrotreated Heavy Naphtha (Petroleum) | In vivo | Not mutagenic |
| Aluminum Oxide (non-fibrous) | In Vitro | Not mutagenic |
| Hydrotreated Light Petroleum Distillates | In Vitro | Not mutagenic |
| White mineral oil (petroleum) | In Vitro | Not mutagenic |
| Plant Oil | In Vitro | Not mutagenic |
| Plant 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 |
| 5-chloro-2-methyl-4-isothiazoline-3-one | In vivo | Not mutagenic |

| | | |
|---|---|---|
| 5-chloro-2-methyl-4-isothiazoline-3-one | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | Not specified. | Not available | Not carcinogenic |
| Aluminum Oxide (non-fibrous) | Inhalation | Rat | Not carcinogenic |
| Hydrotreated Light Petroleum Distillates | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| White mineral oil (petroleum) | Dermal | Mouse | Not carcinogenic |
| White mineral oil (petroleum) | Inhalation | Multiple animal species | Not carcinogenic |
| Glycerin | Ingestion | Mouse | 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 |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Dermal | Mouse | Not carcinogenic |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Rat | Not carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | Not specified. | Not classified for female reproduction | Rat | NOAEL Not available | premating & during gestation |
| Hydrotreated Heavy Naphtha (Petroleum) | Not specified. | Not classified for male reproduction | Rat | NOAEL Not available | 28 days |
| Hydrotreated Heavy Naphtha (Petroleum) | Not specified. | Not classified for development | Rat | NOAEL Not available | during gestation |
| 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 |
| Glycerin | Ingestion | Not classified for female reproduction | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Glycerin | Ingestion | Not classified for male reproduction | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| Glycerin | Ingestion | Not classified for development | Rat | NOAEL 2,000 mg/kg/day | 2 generation |
| 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 |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Not classified for female reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Not classified for male reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Ingestion | Not classified for development | Rat | NOAEL 15 mg/kg/day | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Hydrotreated Light Petroleum Distillates | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Hydrotreated Light Petroleum Distillates | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Hydrotreated Light Petroleum Distillates | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | 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 | |
| 5-chloro-2-methyl-4-isothiazoline-3-one | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Aluminum Oxide (non-fibrous) | Inhalation | pneumoconiosis | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Aluminum Oxide (non-fibrous) | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 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 |
| Glycerin | Inhalation | respiratory system \| heart \| liver \| kidney and/or bladder | Not classified | Rat | NOAEL 3.91 mg/l | 14 days |
| Glycerin | Ingestion | endocrine system \| | Not classified | Rat | NOAEL 10,000 mg/kg/day | 2 years |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | hematopoietic system \| liver \| kidney and/or bladder | | | | |
| Plant Oil | Ingestion | heart \| hematopoietic system \| liver | Not classified | Rat | NOAEL 4,800 mg/kg/day | 13 weeks |
| Plant 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 |
|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | Aspiration hazard |
| Hydrotreated Light Petroleum Distillates | Aspiration hazard |
| White mineral oil (petroleum) | Aspiration hazard |

**Exposure Levels**
Refer Section **8.1 Control Parameters** of this Safety Data Sheet.

**Interactive Effects**
Not determined.

## SECTION 12: Ecological information

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

**12.1. Toxicity**

**Acute aquatic hazard:**
GHS Acute 3: Harmful to aquatic life.

**Chronic aquatic hazard:**
GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | 64742-48-9 | Green algae | Experimental | 72 hours | EL50 | >1,000 mg/l |
| Hydrotreated Heavy Naphtha (Petroleum) | 64742-48-9 | Rainbow trout | Experimental | 96 hours | LL50 | >1,000 mg/l |
| Hydrotreated Heavy Naphtha (Petroleum) | 64742-48-9 | Water flea | Experimental | 48 hours | EL50 | >1,000 mg/l |
| Hydrotreated Heavy Naphtha (Petroleum) | 64742-48-9 | Green algae | Experimental | 72 hours | NOEL | >1,000 mg/l |
| Hydrotreated Heavy Naphtha (Petroleum) | 64742-48-9 | Water flea | Experimental | 21 days | NOEL | <1 mg/l |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | N/A | Experimental | 96 hours | LC50 | >100 mg/l |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Water flea | Experimental | 48 hours | LC50 | >100 mg/l |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Green algae | Experimental | 72 hours | NOEC | >100 mg/l |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | Green algae | Estimated | 72 hours | EC50 | 1 mg/l |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | Rainbow trout | Estimated | 96 hours | LL50 | 2 mg/l |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | Water flea | Estimated | 48 hours | EL50 | 1.4 mg/l |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | Green algae | Estimated | 72 hours | NOEL | 1 mg/l |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | Water flea | Estimated | 21 days | NOEL | 0.48 mg/l |
| Glycerin | 56-81-5 | Bacteria | Experimental | 16 hours | NOEC | 10,000 mg/l |
| Glycerin | 56-81-5 | Rainbow trout | Experimental | 96 hours | LC50 | 54,000 mg/l |
| Glycerin | 56-81-5 | Water flea | Experimental | 48 hours | LC50 | 1,955 mg/l |
| Plant Oil | Trade Secret | Bacteria | Analogous Compound | 16 hours | NOEC | 10,000 mg/l |
| Plant Oil | Trade Secret | Zebra Fish | Analogous Compound | 96 hours | LC50 | >100 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 |
| 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 | ErC50 | 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 | ErC10 | 26 mg/l |
| Triethanolamine | 102-71-6 | Water flea | Experimental | 21 days | NOEC | 16 mg/l |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | Green algae | Experimental | 72 hours | ErC50 | 0.11 mg/l |
| 1,2-Benzisothiazol- | 2634-33-5 | Rainbow trout | Experimental | 96 hours | LC50 | 1.6 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3(2H)-one | | | | | | |
| 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) |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Diatom | Experimental | 72 hours | ErC50 | 0.007 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Green algae | Experimental | 72 hours | ErC50 | 0.027 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Mysid Shrimp | Experimental | 96 hours | LC50 | 0.282 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Rainbow trout | Experimental | 96 hours | LC50 | 0.19 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Sheepshead Minnow | Experimental | 96 hours | LC50 | 0.3 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Water flea | Experimental | 48 hours | EC50 | 0.16 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Diatom | Experimental | 48 hours | NOEC | 0.00049 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Fathead minnow | Experimental | 36 days | NOEC | 0.02 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Green algae | Experimental | 72 hours | NOEC | 0.004 mg/l |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Water flea | Experimental | 21 days | NOEC | 0.0111 mg/l |

### 12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | 64742-48-9 | Experimental Biodegradation | 28 days | BOD | 31.3 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Data not available-insufficient | N/A | N/A | N/A | N/A |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | Data not available-insufficient | N/A | N/A | N/A | N/A |
| Glycerin | 56-81-5 | Experimental Biodegradation | 14 days | BOD | 63 %BOD/ThOD | OECD 301C - MITI test (I) |
| Plant Oil | Trade Secret | Analogous | 28 days | BOD | 64 %BOD/ThOD | OECD 301D - Closed bottle |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | Compound Biodegradation | | | | test |
| White mineral oil (petroleum) | 8042-47-5 | Experimental Biodegradation | 28 days | CO2 evolution | 0 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Triethanolamine | 102-71-6 | Experimental Biodegradation | 19 days | Dissolv. Organic Carbon Deplet | 96 %removal of DOC | similar to OECD 301E |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | Experimental Biodegradation | 28 days | BOD | 0 %BOD/ThOD | 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 |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Experimental Biodegradation | 29 days | CO2 evolution | 62 %CO2 evolution/THCO2 evolution (does not pass 10-day window) | OECD 301B - Modified sturm or CO2 |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Modeled Photolysis | | Photolytic half-life (in air) | 1.2 days (t 1/2) | Episuite™ |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | >60 days (t 1/2) | OECD 111 Hydrolysis func of pH |

### 12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Hydrotreated Heavy Naphtha (Petroleum) | 64742-48-9 | Estimated Bioconcentration | | Log Kow | >4 | |
| Aluminum Oxide (non-fibrous) | 1344-28-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Hydrotreated Light Petroleum Distillates | 64742-47-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Glycerin | 56-81-5 | Experimental Bioconcentration | | Log Kow | -1.76 | |
| Plant Oil | Trade Secret | Modeled Bioconcentration | | Bioaccumulation factor | 7.4 | Catalogic™ |
| White mineral oil (petroleum) | 8042-47-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Triethanolamine | 102-71-6 | Experimental BCF - Fish | 42 days | Bioaccumulation factor | <3.9 | similar to OECD 305 |
| 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 |
| 5-chloro-2-methyl-4-isothiazoline-3-one | 26172-55-4 | Analogous Compound BCF - Fish | 42 days | Bioaccumulation factor | 54 | OECD305-Bioconcentration |

### 12.4. Mobility in soil
Please contact manufacturer for more details

### 12.5 Other adverse effects
No information available.

## SECTION 13: Disposal considerations

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

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes.

## SECTION 14: Transport Information

**Australian Dangerous Goods Code (ADG) - Road/Rail Transport**
**UN No.:** Not applicable.
**Proper shipping name:** Not applicable.
**Class/Division:** Not applicable.
**Sub Risk:** Not applicable.
**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable
**IERG:** Not applicable.

**International Air Transport Association (IATA) - Air Transport**
**UN No.:** Not applicable.
**Proper shipping name:** Not applicable.
**Class/Division:** Not applicable.
**Sub Risk:** Not applicable.
**Packing Group:** Not applicable.

**International Maritime Dangerous Goods Code (IMDG)- Marine Transport**
**UN No.:** Not applicable.
**Proper shipping name:** Not applicable.
**Class/Division:** Not applicable.
**Sub Risk:** Not applicable.
**Packing Group:** Not applicable.
**Marine Pollutant:** Not applicable.

## SECTION 15: Regulatory information

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

**Australian Inventory Status:**
All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC). Conditions may apply prior to introduction for direct importers of this product, Please contact 3M Australia on 136 136 for further details.

**Poison Schedule:**This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

## SECTION 16: Other information

**Revision information:**
Update for newly available hazard classification information.

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 Safety 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.
Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at www.3m.com.au**