



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 06-8476-1 | <b>Version Number:</b>  | 23.00    |
| <b>Issue Date:</b>     | 09/03/25  | <b>Supersedes Date:</b> | 05/16/25 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Deodorizer - Mountain Spice - Concentrate (Product No. 14, Twist 'n Fill™ System)

#### Product Identification Numbers

| ID Number      | UPC | ID Number      | UPC              |
|----------------|-----|----------------|------------------|
| 61-0000-6337-2 |     | 70-0708-4014-8 | 00-48011-20120-2 |
| 70-0716-6114-7 |     | 70-0716-8288-7 | 00-48011-20120-2 |

7000002090, 7100057516, 7010328501, 7100202869

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

##### Recommended use

Deodorizer, Long-lasting deodorizer leaves a fragrant, spicy scent.

#### 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Acute Toxicity (oral): Category 4.  
Serious Eye Damage/Irritation: Category 1.  
Skin Corrosion/Irritation: Category 2.  
Skin Sensitizer: Category 1.  
Reproductive Toxicity: Category 2.

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Corrosion | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Harmful if swallowed.  
Causes serious eye damage.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.

**Precautionary Statements****Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wear protective gloves and eye/face protection.  
Do not eat, drink or smoke when using this product.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN: Wash with plenty of soap and water.  
Immediately call a POISON CENTER or doctor/physician.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Rinse mouth.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage:**

Store locked up.

**Disposal:**

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

34% of the mixture consists of ingredients of unknown acute oral toxicity.

35% of the mixture consists of ingredients of unknown acute dermal toxicity.

49% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

| Ingredient                              | C.A.S. No.    | % by Wt                |
|-----------------------------------------|---------------|------------------------|
| C8-10 Alcohols Ethoxylated Propoxylated | 68603-25-8    | 30 - 50 Trade Secret * |
| Polysorbate 20                          | 9005-64-5     | 10 - 30 Trade Secret * |
| Fragrance (NJTSRN 04499600-6518)        | Trade Secret* | < 30 Trade Secret *    |

|                                                    |            |                        |
|----------------------------------------------------|------------|------------------------|
| Water                                              | 7732-18-5  | 10 - 20 Trade Secret * |
| Cinnamal                                           | 104-55-2   | < 3 Trade Secret *     |
| Eucalyptus Oil                                     | 8000-48-4  | < 3 Trade Secret *     |
| Methoxyisopropanol                                 | 107-98-2   | < 3 Trade Secret *     |
| Terpineol                                          | 98-55-5    | < 3 Trade Secret *     |
| 2-t-Butylcyclohexyl Acetate                        | 88-41-5    | < 2 Trade Secret *     |
| Amyl Cinnamal                                      | 122-40-7   | < 2 Trade Secret *     |
| Benzeneethanol                                     | 60-12-8    | < 2 Trade Secret *     |
| BENZYL SALICYLATE                                  | 118-58-1   | < 2 Trade Secret *     |
| COUMARIN                                           | 91-64-5    | < 2 Trade Secret *     |
| Eugenol                                            | 97-53-0    | < 2 Trade Secret *     |
| Geraniol                                           | 106-24-1   | < 2 Trade Secret *     |
| Isobornyl Acetate                                  | 125-12-2   | < 2 Trade Secret *     |
| Linalool                                           | 78-70-6    | < 2 Trade Secret *     |
| Linalyl Acetate                                    | 115-95-7   | < 2 Trade Secret *     |
| Phenethyl Acetate                                  | 103-45-7   | < 2 Trade Secret *     |
| Terpenes and terpenoids, sweet orange-oil          | 68647-72-3 | < 2 Trade Secret *     |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | 2705-87-5  | < 0.3 Trade Secret *   |
| CITRAL                                             | 5392-40-5  | < 0.3 Trade Secret *   |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | 1222-05-5  | < 0.3 Trade Secret *   |
| Acid Green 25                                      | 4403-90-1  | < 0.1 Trade Secret *   |
| Acid Yellow 73 Sodium Salt                         | 518-47-8   | < 0.1 Trade Secret *   |
| Acid Violet 43                                     | 4430-18-6  | < 0.01 Trade Secret *  |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

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

#### Skin Contact:

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

#### Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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

Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

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

### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>  |
|------------------|-------------------|
| Carbon monoxide  | During Combustion |
| Carbon dioxide   | During Combustion |

### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

### 6.2. Environmental precautions

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

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with water. 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

This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

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

Store away from oxidizing agents.

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

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

| <b>Ingredient</b>  | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>                       | <b>Additional Comments</b>                              |
|--------------------|-------------------|---------------|-----------------------------------------|---------------------------------------------------------|
| Methoxyisopropanol | 107-98-2          | ACGIH         | TWA:50 ppm;STEL:100 ppm                 | A4: Not class. as human carcin                          |
| CITRAL             | 5392-40-5         | ACGIH         | TWA(inhalable fraction and vapor):5 ppm | A4: Not class. as human carcin, SKIN; Dermal sensitizer |
| Benzeneethanol     | 60-12-8           | ACGIH         | TWA:0.5 ppm                             | Danger of cutaneous absorption                          |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

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

NOTE: When used with a 3M branded chemical dispensing system, such as 3M(TM) Flow Control System or 3M(TM) Twist 'n Fill(TM) Cleaning Chemical Dispenser as directed, special ventilation is not required. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

NOTE: When used with a 3M branded chemical dispensing system, such as 3M(TM) Flow Control System or 3M(TM) Twist 'n Fill(TM) Cleaning Chemical Dispenser, as directed, eye contact with the concentrate is not expected to occur. The following protection(s) are recommended if the product is not used with a chemical dispensing system or if there is an accidental release, wear protective 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:

Full Face Shield

Indirect Vented Goggles

**Skin/hand protection**

NOTE: When used with a 3M branded chemical dispensing system, such as 3M(TM) Flow Control System or 3M(TM) Twist 'n Fill(TM) Cleaning Chemical Dispenser as directed, skin contact with the concentrate is not expected to occur.

If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

### Respiratory protection

NOTE: When used with a 3M branded chemical dispensing system, such as 3M(TM) Flow Control System or 3M(TM) Twist 'n Fill(TM) Cleaning Chemical Dispenser as directed, respiratory protection is not required.

If product is not used with a chemical dispensing system or if there is an accidental release:

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

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

Half facepiece or full facepiece supplied-air respirator

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

## SECTION 9: Physical and chemical properties

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

|                                                   |                                                           |
|---------------------------------------------------|-----------------------------------------------------------|
| Physical state                                    | Liquid                                                    |
| Specific Physical Form:                           | Liquid                                                    |
| Color                                             | Green                                                     |
| Odor                                              | Strong Spicy                                              |
| Odor threshold                                    | No Data Available                                         |
| pH                                                | 6.5 - 8.5                                                 |
| Melting point/Freezing point                      | Not Applicable                                            |
| Boiling point/Initial boiling point/Boiling range | Approximately 93.3 °C                                     |
| Flash Point                                       | > 93.3 °C [Test Method: Closed Cup]                       |
| Evaporation rate                                  | No Data Available                                         |
| Flammability                                      | Not Applicable                                            |
| Flammable Limits(LEL)                             | No Data Available                                         |
| Flammable Limits(UEL)                             | No Data Available                                         |
| Vapor Pressure                                    | No Data Available                                         |
| Relative Vapor Density                            | No Data Available                                         |
| Density                                           | 1.019 - 1.039 g/ml                                        |
| Relative Density                                  | 1.019 - 1.039 [Ref Std: WATER=1]                          |
| Water solubility                                  | Complete                                                  |
| Solubility- non-water                             | No Data Available                                         |
| Partition coefficient: n-octanol/ water           | No Data Available                                         |
| Autoignition temperature                          | No Data Available                                         |
| Decomposition temperature                         | No Data Available                                         |
| Kinematic Viscosity                               | No Data Available                                         |
| Volatile Organic Compounds                        | 1 - 5 % weight [Test Method: calculated per CARB title 2] |
| Percent volatile                                  | No Data Available                                         |
| VOC Less H2O & Exempt Solvents                    | 25 - 35 g/l [Test Method: calculated per CARB title 2]    |
| Molecular weight                                  | Not Applicable                                            |

## Particle Characteristics

Not Applicable

**SECTION 10: Stability and reactivity****10.1. Reactivity**

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

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products****Substance****Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

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

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

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

**Inhalation:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**

May be harmful in contact with skin.

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

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

**Eye Contact:**

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**Ingestion:**

Harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea,

vomiting and diarrhea.

May cause additional health effects (see below).

#### Additional Health Effects:

#### Reproductive/Developmental Toxicity:

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

#### 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 >2,000 - =5,000 mg/kg |
| Overall product                           | Inhalation-Vapor(4 hr)         |                        | No data available; calculated ATE >50 mg/l              |
| Overall product                           | Ingestion                      |                        | No data available; calculated ATE >300 - =2,000 mg/kg   |
| C8-10 Alcohols Ethoxylated Propoxylated   | Dermal                         | Rabbit                 | LD50 >= 1,680 mg/kg                                     |
| C8-10 Alcohols Ethoxylated Propoxylated   | Ingestion                      | Rat                    | LD50 >= 810 mg/kg                                       |
| Polysorbate 20                            | Ingestion                      | Hamster                | LD50 18,000 mg/kg                                       |
| Polysorbate 20                            | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg                      |
| Polysorbate 20                            | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.1 mg/l                                         |
| Cinnamal                                  | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                                      |
| Eucalyptus Oil                            | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                      |
| Cinnamal                                  | Ingestion                      | Rat                    | LD50 2,200 mg/kg                                        |
| Eucalyptus Oil                            | Ingestion                      | Rat                    | LD50 2,334 mg/kg                                        |
| Terpineol                                 | Dermal                         | similar compounds      | LD50 > 2,000 mg/kg                                      |
| Terpineol                                 | Ingestion                      | similar compounds      | LD50 > 2,000 mg/kg                                      |
| Methoxyisopropanol                        | Dermal                         | Rabbit                 | LD50 11,000-13,800 mg/kg                                |
| Methoxyisopropanol                        | Inhalation-Vapor (4 hours)     | Rat                    | LC50 56 mg/l                                            |
| Methoxyisopropanol                        | Ingestion                      | Rat                    | LD50 6,100 mg/kg                                        |
| Linalool                                  | Dermal                         | Rabbit                 | LD50 5,610 mg/kg                                        |
| Linalool                                  | Ingestion                      | Rat                    | LD50 2,790 mg/kg                                        |
| Eugenol                                   | Dermal                         |                        | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Terpenes and terpenoids, sweet orange-oil | Inhalation-Vapor (4 hours)     | Mouse                  | LC50 > 3.14 mg/l                                        |
| Amyl Cinnamal                             | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                                      |
| BENZYL SALICYLATE                         | Dermal                         | Rabbit                 | LD50 14,150 mg/kg                                       |
| Geraniol                                  | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                      |
| Isobornyl Acetate                         | Dermal                         | Rabbit                 | LD50 20,000 mg/kg                                       |
| Linalyl Acetate                           | Dermal                         | Rabbit                 | LD50 5,610 mg/kg                                        |
| Terpenes and terpenoids, sweet orange-oil | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                      |
| Amyl Cinnamal                             | Ingestion                      | Rat                    | LD50 3,730 mg/kg                                        |
| BENZYL SALICYLATE                         | Ingestion                      | Rat                    | LD50 2,227 mg/kg                                        |
| COUMARIN                                  | Ingestion                      | Rat                    | LD50 > 300 mg/kg                                        |
| Eugenol                                   | Inhalation-Dust/Mist           | Rat                    | LC50 > 2.58 mg/l                                        |

|                                                    | (4 hours)                         |        |                     |
|----------------------------------------------------|-----------------------------------|--------|---------------------|
| Eugenol                                            | Ingestion                         | Rat    | LD50 > 2,000 mg/kg  |
| Geraniol                                           | Ingestion                         | Rat    | LD50 3,600 mg/kg    |
| Isobornyl Acetate                                  | Ingestion                         | Rat    | LD50 > 10,000 mg/kg |
| Linalyl Acetate                                    | Ingestion                         | Rat    | LD50 > 9,000 mg/kg  |
| Terpenes and terpenoids, sweet orange-oil          | Ingestion                         | Rat    | LD50 4,400 mg/kg    |
| Benzeneethanol                                     | Dermal                            | Rabbit | LD50 2,535 mg/kg    |
| Benzeneethanol                                     | Ingestion                         | Rat    | LD50 1,609 mg/kg    |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Dermal                            | Rabbit | LD50 1,600 mg/kg    |
| CITRAL                                             | Dermal                            | Rabbit | LD50 2,250 mg/kg    |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Ingestion                         | Rat    | LD50 585 mg/kg      |
| CITRAL                                             | Ingestion                         | Rat    | LD50 6,800 mg/kg    |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Dermal                            | Rat    | LD50 > 2,000 mg/kg  |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Inhalation-Dust/Mist<br>(4 hours) | Rat    | LC50 > 5.04 mg/l    |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Ingestion                         | Rat    | LD50 > 2,000 mg/kg  |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                               | Species                | Value                     |
|----------------------------------------------------|------------------------|---------------------------|
| C8-10 Alcohols Ethoxylated Propoxylated            | Rabbit                 | Irritant                  |
| Polysorbate 20                                     | Rabbit                 | Minimal irritation        |
| Cinnamal                                           | Human                  | Mild irritant             |
| Eucalyptus Oil                                     | Rabbit                 | Irritant                  |
| Terpineol                                          | Rabbit                 | Irritant                  |
| Methoxyisopropanol                                 | Not available          | Minimal irritation        |
| Linalool                                           | Rabbit                 | Irritant                  |
| Amyl Cinnamal                                      | similar compounds      | Irritant                  |
| BENZYL SALICYLATE                                  | Rabbit                 | Minimal irritation        |
| Eugenol                                            | Rabbit                 | Mild irritant             |
| Geraniol                                           | Rabbit                 | Irritant                  |
| Isobornyl Acetate                                  | Rabbit                 | Mild irritant             |
| Linalyl Acetate                                    | Rabbit                 | Irritant                  |
| Terpenes and terpenoids, sweet orange-oil          | Rabbit                 | Irritant                  |
| Benzeneethanol                                     | Rabbit                 | Minimal irritation        |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Professional judgement | Mild irritant             |
| CITRAL                                             | Rabbit                 | Irritant                  |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | In vitro data          | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                    | Species           | Value                     |
|-----------------------------------------|-------------------|---------------------------|
| C8-10 Alcohols Ethoxylated Propoxylated | Rabbit            | Corrosive                 |
| Polysorbate 20                          | Rabbit            | No significant irritation |
| Cinnamal                                | Human             | Moderate irritant         |
| Eucalyptus Oil                          | Rabbit            | Mild irritant             |
| Terpineol                               | similar compounds | Moderate irritant         |
| Methoxyisopropanol                      | Not available     | Mild irritant             |
| Linalool                                | Rabbit            | Moderate irritant         |
| Amyl Cinnamal                           | similar           | Mild irritant             |

|                                                    | compounds     |                           |
|----------------------------------------------------|---------------|---------------------------|
| BENZYL SALICYLATE                                  | Rabbit        | Moderate irritant         |
| Eugenol                                            | Rabbit        | Severe irritant           |
| Geraniol                                           | Rabbit        | Corrosive                 |
| Isobornyl Acetate                                  | Rabbit        | Mild irritant             |
| Linalyl Acetate                                    | Rabbit        | Mild irritant             |
| Terpenes and terpenoids, sweet orange-oil          | Rabbit        | Mild irritant             |
| Benzeneethanol                                     | Rabbit        | Corrosive                 |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Rabbit        | No significant irritation |
| CITRAL                                             | Rabbit        | Severe irritant           |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | In vitro data | No significant irritation |

### Skin Sensitization

| Name                                               | Species           | Value                                                                        |
|----------------------------------------------------|-------------------|------------------------------------------------------------------------------|
| Polysorbate 20                                     | Guinea pig        | Not classified                                                               |
| Cinnamal                                           | Human and animal  | Sensitizing                                                                  |
| Eucalyptus Oil                                     | similar compounds | Sensitizing                                                                  |
| Terpineol                                          | Mouse             | Not classified                                                               |
| Methoxyisopropanol                                 | Guinea pig        | Not classified                                                               |
| Linalool                                           | Mouse             | Sensitizing                                                                  |
| Amyl Cinnamal                                      | Mouse             | Sensitizing                                                                  |
| BENZYL SALICYLATE                                  | Mouse             | Sensitizing                                                                  |
| COUMARIN                                           | Human             | Some positive data exist, but the data are not sufficient for classification |
| Eugenol                                            | Mouse             | Sensitizing                                                                  |
| Geraniol                                           | Human and animal  | Sensitizing                                                                  |
| Isobornyl Acetate                                  | Human             | Not classified                                                               |
| Linalyl Acetate                                    | Mouse             | Sensitizing                                                                  |
| Terpenes and terpenoids, sweet orange-oil          | Mouse             | Sensitizing                                                                  |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Guinea pig        | Sensitizing                                                                  |
| CITRAL                                             | Human and animal  | Sensitizing                                                                  |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Guinea pig        | Not classified                                                               |

### Photosensitization

| Name                                               | Species    | Value           |
|----------------------------------------------------|------------|-----------------|
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Guinea pig | Not sensitizing |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name           | Route    | Value                                                                        |
|----------------|----------|------------------------------------------------------------------------------|
| Polysorbate 20 | In Vitro | Not mutagenic                                                                |
| Cinnamal       | In vivo  | Not mutagenic                                                                |
| Cinnamal       | In Vitro | Some positive data exist, but the data are not sufficient for classification |

|                                                    |          |                                                                              |
|----------------------------------------------------|----------|------------------------------------------------------------------------------|
| Eucalyptus Oil                                     | In Vitro | Not mutagenic                                                                |
| Terpineol                                          | In Vitro | Not mutagenic                                                                |
| Methoxyisopropanol                                 | In Vitro | Not mutagenic                                                                |
| Linalool                                           | In Vitro | Not mutagenic                                                                |
| Linalool                                           | In vivo  | Not mutagenic                                                                |
| Amyl Cinnamal                                      | In Vitro | Not mutagenic                                                                |
| BENZYL SALICYLATE                                  | In Vitro | Not mutagenic                                                                |
| Eugenol                                            | In Vitro | Not mutagenic                                                                |
| Eugenol                                            | In vivo  | Not mutagenic                                                                |
| Geraniol                                           | In Vitro | Not mutagenic                                                                |
| Isobornyl Acetate                                  | In Vitro | Not mutagenic                                                                |
| Isobornyl Acetate                                  | In vivo  | Not mutagenic                                                                |
| Linalyl Acetate                                    | In Vitro | Not mutagenic                                                                |
| Terpenes and terpenoids, sweet orange-oil          | In Vitro | Not mutagenic                                                                |
| Terpenes and terpenoids, sweet orange-oil          | In vivo  | Not mutagenic                                                                |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | In Vitro | Not mutagenic                                                                |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | In vivo  | Not mutagenic                                                                |
| CITRAL                                             | In vivo  | Not mutagenic                                                                |
| CITRAL                                             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | In Vitro | Not mutagenic                                                                |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | In vivo  | Not mutagenic                                                                |

### Carcinogenicity

| Name                                      | Route      | Species                 | Value                                                                        |
|-------------------------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| Methoxyisopropanol                        | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Eugenol                                   | Ingestion  | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Terpenes and terpenoids, sweet orange-oil | Ingestion  | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| CITRAL                                    | 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        |
|--------------------|------------|----------------------------------------|-------------------|-----------------------|--------------------------|
| Polysorbate 20     | Ingestion  | Not classified for development         | Rat               | NOAEL 500 mg/kg/day   | during organogenesis     |
| Cinnamal           | Ingestion  | Not classified for development         | Rat               | NOAEL 250 mg/kg/day   | during organogenesis     |
| Eucalyptus Oil     | Ingestion  | Not classified for female reproduction | Rat               | NOAEL 1,000 mg/kg/day | premating into lactation |
| Eucalyptus Oil     | Ingestion  | Not classified for male reproduction   | Rat               | NOAEL 1,000 mg/kg/day | 5 weeks                  |
| Eucalyptus Oil     | Ingestion  | Not classified for development         | Rat               | NOAEL 300 mg/kg/day   | premating into lactation |
| Terpineol          | Ingestion  | Toxic to male reproduction             | similar compounds | NOAEL 250 mg/kg/day   | 5 weeks                  |
| Methoxyisopropanol | Inhalation | Not classified for male reproduction   | Rat               | NOAEL 11 mg/l         | 2 generation             |
| Methoxyisopropanol | Ingestion  | Not classified for female reproduction | Mouse             | NOAEL 3,328 mg/kg/day | 2 generation             |
| Methoxyisopropanol | Inhalation | Not classified for female reproduction | Rat               | NOAEL 3.7 mg/l        | 2 generation             |
| Methoxyisopropanol | Ingestion  | Not classified for male reproduction   | Mouse             | NOAEL 3,328 mg/kg     | 2 generation             |

|                                                    |            |                                        |                         |                       |                              |
|----------------------------------------------------|------------|----------------------------------------|-------------------------|-----------------------|------------------------------|
| Methoxyisopropanol                                 | Ingestion  | Not classified for development         | Rat                     | NOAEL 370 mg/kg       | during gestation             |
| Methoxyisopropanol                                 | Inhalation | Not classified for development         | Rat                     | NOAEL 3.7 mg/l        | 2 generation                 |
| Linalool                                           | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 365 mg/kg/day   | premating into lactation     |
| Linalool                                           | Ingestion  | Not classified for development         | Rat                     | NOAEL 365 mg/kg/day   | premating into lactation     |
| BENZYL SALICYLATE                                  | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 166 mg/kg/day   | premating into lactation     |
| BENZYL SALICYLATE                                  | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 158 mg/kg/day   | 28 days                      |
| BENZYL SALICYLATE                                  | Ingestion  | Not classified for development         | Rat                     | NOAEL 72 mg/kg/day    | during gestation             |
| Geraniol                                           | Dermal     | Not classified for female reproduction | Rat                     | NOAEL 300 mg/kg/day   | premating into lactation     |
| Geraniol                                           | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 800 mg/kg/day   | 2 generation                 |
| Geraniol                                           | Dermal     | Not classified for male reproduction   | Rat                     | NOAEL 300 mg/kg/day   | 28 days                      |
| Geraniol                                           | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 800 mg/kg/day   | 2 generation                 |
| Geraniol                                           | Dermal     | Not classified for development         | Rat                     | NOAEL 300 mg/kg/day   | premating into lactation     |
| Geraniol                                           | Ingestion  | Not classified for development         | Rat                     | NOAEL 300 mg/kg/day   | during gestation             |
| Isobornyl Acetate                                  | Ingestion  | Not classified for development         | Rat                     | NOAEL 1,000 mg/kg/day | during organogenesis         |
| Terpenes and terpenoids, sweet orange-oil          | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 750 mg/kg/day   | premating & during gestation |
| Terpenes and terpenoids, sweet orange-oil          | Ingestion  | Not classified for development         | Multiple animal species | NOAEL 591 mg/kg/day   | during organogenesis         |
| Benzeneethanol                                     | Dermal     | Not classified for development         | Rat                     | NOAEL 70 mg/kg/day    | during organogenesis         |
| Benzeneethanol                                     | Ingestion  | Not classified for development         | Rat                     | NOAEL Not available   | during organogenesis         |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 125 mg/kg/day   | 1 generation                 |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 125 mg/kg/day   | 1 generation                 |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Ingestion  | Not classified for development         | Rat                     | NOAEL 75 mg/kg/day    | 1 generation                 |
| CITRAL                                             | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 250 mg/kg/day   | 2 generation                 |
| CITRAL                                             | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 250 mg/kg/day   | 2 generation                 |
| CITRAL                                             | Ingestion  | Not classified for development         | Rabbit                  | NOAEL 60 mg/kg/day    | during gestation             |
| CITRAL                                             | Inhalation | Not classified for development         | Rat                     | NOAEL 0.21 mg/l       | during organogenesis         |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 92 mg/kg/day    | 2 generation                 |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 94 mg/kg/day    | 2 generation                 |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Ingestion  | Not classified for development         | Rat                     | NOAEL 150 mg/kg/day   | during gestation             |

### Target Organ(s)

**Specific Target Organ Toxicity - single exposure**

| Name                                               | Route      | Target Organ(s)                   | Value                                                                        | Species                 | Test Result         | Exposure Duration |
|----------------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|-------------------|
| C8-10 Alcohols<br>Ethoxylated Propoxylated         | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| Eucalyptus Oil                                     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                   |
| Eucalyptus Oil                                     | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | 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 |                   |
| Methoxyisopropanol                                 | Dermal     | central nervous system depression | Not classified                                                               | Rabbit                  | NOAEL 1,800 mg/kg   | 13 weeks          |
| Methoxyisopropanol                                 | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                   |
| Linalool                                           | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL not available |                   |
| Amyl Cinnamal                                      | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| BENZYL SALICYLATE                                  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| Eugenol                                            | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| Geraniol                                           | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL not available |                   |
| Isobornyl Acetate                                  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| Linalyl Acetate                                    | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL not available |                   |
| Terpenes and terpenoids, sweet orange-oil          | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| Terpenes and terpenoids, sweet orange-oil          | Ingestion  | nervous system                    | Not classified                                                               |                         | NOAEL Not available |                   |
| 2-PROPENYL 3-CYCLOHEXYLPROPAN OATE                 | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| CITRAL                                             | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL not available |                   |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Dermal     | photoirritation                   | Not classified                                                               | Multiple animal species | NOAEL Not Available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name           | Route     | Target Organ(s)                                                                                                      | Value          | Species | Test Result           | Exposure Duration |
|----------------|-----------|----------------------------------------------------------------------------------------------------------------------|----------------|---------|-----------------------|-------------------|
| Polysorbate 20 | Ingestion | heart   endocrine system   gastrointestinal tract   hematopoietic system   liver   muscles   nervous system   kidney | Not classified | Rat     | NOAEL 2,000 mg/kg/day | 2 years           |

|                    |            |                                                                                                                                                                                                                       |                                                                                    |        |                             |          |
|--------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|-----------------------------|----------|
|                    |            | and/or bladder  <br>respiratory system                                                                                                                                                                                |                                                                                    |        |                             |          |
| Cinnamal           | Ingestion  | liver                                                                                                                                                                                                                 | Not classified                                                                     | Rat    | NOAEL 500<br>mg/kg/day      | 16 weeks |
| Cinnamal           | Ingestion  | blood                                                                                                                                                                                                                 | Not classified                                                                     | Rat    | NOAEL<br>5,000<br>mg/kg/day | 13 weeks |
| Cinnamal           | Ingestion  | kidney and/or<br>bladder                                                                                                                                                                                              | Not classified                                                                     | Rat    | NOAEL 227<br>mg/kg/day      | 12 weeks |
| Eucalyptus Oil     | Ingestion  | endocrine system  <br>hematopoietic<br>system   liver                                                                                                                                                                 | Not classified                                                                     | Rat    | NOAEL<br>1,000<br>mg/kg/day | 5 weeks  |
| Eucalyptus Oil     | Ingestion  | kidney and/or<br>bladder                                                                                                                                                                                              | Not classified                                                                     | Rat    | LOAEL 100<br>mg/kg/day      | 5 weeks  |
| Methoxyisopropanol | Dermal     | kidney and/or<br>bladder                                                                                                                                                                                              | Not classified                                                                     | Rabbit | NOAEL<br>1,800<br>mg/kg/day | 13 weeks |
| Methoxyisopropanol | Dermal     | hematopoietic<br>system                                                                                                                                                                                               | Not classified                                                                     | Rabbit | NOAEL<br>1,000<br>mg/kg/day | 3 weeks  |
| Methoxyisopropanol | Inhalation | kidney and/or<br>bladder                                                                                                                                                                                              | Not classified                                                                     | Rat    | NOAEL 3.7<br>mg/l           | 13 weeks |
| Methoxyisopropanol | Inhalation | liver                                                                                                                                                                                                                 | Not classified                                                                     | Rat    | NOAEL 11<br>mg/l            | 13 weeks |
| Methoxyisopropanol | Inhalation | hematopoietic<br>system                                                                                                                                                                                               | Not classified                                                                     | Rat    | NOAEL 2.2<br>mg/l           | 10 days  |
| Methoxyisopropanol | Ingestion  | liver                                                                                                                                                                                                                 | Some positive data exist, but the<br>data are not sufficient for<br>classification | Rat    | NOAEL 920<br>mg/kg/day      | 13 weeks |
| Methoxyisopropanol | Ingestion  | kidney and/or<br>bladder                                                                                                                                                                                              | Not classified                                                                     | Rat    | NOAEL 920<br>mg/kg/day      | 13 weeks |
| Linalool           | Dermal     | skin   heart  <br>endocrine system  <br>hematopoietic<br>system   liver  <br>immune system  <br>muscles   nervous<br>system   kidney<br>and/or bladder  <br>respiratory system                                        | Not classified                                                                     | Rat    | NOAEL<br>1,000<br>mg/kg/day | 91 days  |
| Linalool           | Ingestion  | kidney and/or<br>bladder                                                                                                                                                                                              | Not classified                                                                     | Rat    | LOAEL 53<br>mg/kg/day       | 95 days  |
| Linalool           | Ingestion  | endocrine system  <br>hematopoietic<br>system   liver  <br>nervous system  <br>eyes                                                                                                                                   | Not classified                                                                     | Rat    | NOAEL 498<br>mg/kg/day      | 95 days  |
| Linalool           | Ingestion  | immune system                                                                                                                                                                                                         | Not classified                                                                     | Mouse  | NOAEL 375<br>mg/kg/day      | 5 days   |
| Amyl Cinnamal      | Ingestion  | liver   kidney and/or<br>bladder   heart  <br>endocrine system  <br>gastrointestinal tract<br>  hematopoietic<br>system   immune<br>system   muscles  <br>nervous system  <br>respiratory system  <br>vascular system | Not classified                                                                     | Rat    | NOAEL 287<br>mg/kg/day      | 14 weeks |
| BENZYL SALICYLATE  | Ingestion  | heart   skin  <br>endocrine system  <br>gastrointestinal tract<br>  bone, teeth, nails,<br>and/or hair  <br>hematopoietic<br>system   liver  <br>immune system  <br>muscles   nervous                                 | Not classified                                                                     | Rat    | NOAEL 357<br>mg/kg/day      | 90 days  |

|                                                    |           |                                                                                                                                                                                                                           |                |       |                       |           |
|----------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|-----------------------|-----------|
|                                                    |           | system   eyes   kidney and/or bladder   respiratory system   vascular system                                                                                                                                              |                |       |                       |           |
| Eugenol                                            | Ingestion | liver                                                                                                                                                                                                                     | Not classified | Rat   | NOAEL 900 mg/kg/day   | 4 days    |
| Eugenol                                            | Ingestion | endocrine system   gastrointestinal tract                                                                                                                                                                                 | Not classified | Rat   | NOAEL 1,400 mg/kg/day | 34 days   |
| Eugenol                                            | Ingestion | hematopoietic system                                                                                                                                                                                                      | Not classified | Rat   | NOAEL 500 mg/kg/day   | 19 weeks  |
| Geraniol                                           | Ingestion | endocrine system   liver                                                                                                                                                                                                  | Not classified | Rat   | NOAEL 1,000 mg/kg/day | 28 days   |
| Geraniol                                           | Ingestion | heart   bone, teeth, nails, and/or hair   hematopoietic system   muscles   kidney and/or bladder                                                                                                                          | Not classified | Rat   | NOAEL 550 mg/kg/day   | 112 days  |
| Isobornyl Acetate                                  | Ingestion | kidney and/or bladder                                                                                                                                                                                                     | Not classified | Rat   | NOAEL 90 mg/kg/day    | 13 weeks  |
| Isobornyl Acetate                                  | Ingestion | gastrointestinal tract   liver   heart   endocrine system   hematopoietic system   immune system   muscles   nervous system   respiratory system                                                                          | Not classified | Rat   | NOAEL 270 mg/kg/day   | 13 weeks  |
| Terpenes and terpenoids, sweet orange-oil          | Ingestion | kidney and/or bladder                                                                                                                                                                                                     | Not classified | Rat   | LOAEL 75 mg/kg/day    | 103 weeks |
| Terpenes and terpenoids, sweet orange-oil          | Ingestion | liver                                                                                                                                                                                                                     | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| Terpenes and terpenoids, sweet orange-oil          | Ingestion | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system                                                                         | Not classified | Rat   | NOAEL 600 mg/kg/day   | 103 weeks |
| 2-PROPENYL 3-CYCLOHEXYLPROPANOATE                  | Ingestion | hematopoietic system                                                                                                                                                                                                      | Not classified | Rat   | NOAEL 214 mg/kg/day   | 52 weeks  |
| CITRAL                                             | Ingestion | gastrointestinal tract   hematopoietic system   kidney and/or bladder   heart   skin   endocrine system   bone, teeth, nails, and/or hair   liver   immune system   nervous system   respiratory system   vascular system | Not classified | Rat   | NOAEL 1,330 mg/kg/day | 90 days   |
| HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-GAMMA-2-BENZOPYRAN | Ingestion | heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous                                                             | Not classified | Rat   | NOAEL 150 mg/kg/day   | 90 days   |

|  |  |                                                                                          |  |  |  |  |
|--|--|------------------------------------------------------------------------------------------|--|--|--|--|
|  |  | system   eyes  <br>kidney and/or<br>bladder   respiratory<br>system   vascular<br>system |  |  |  |  |
|--|--|------------------------------------------------------------------------------------------|--|--|--|--|

**Aspiration Hazard**

| Name                                      | Value             |
|-------------------------------------------|-------------------|
| Eucalyptus Oil                            | Aspiration hazard |
| Terpenes and terpenoids, sweet orange-oil | Aspiration hazard |

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

**SECTION 12: Ecological information****Ecotoxicological information**

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

**Chemical fate information**

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

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

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

Dispose of waste product in a permitted industrial waste facility. 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.

**EPA Hazardous Waste Number (RCRA):** D006 (Cadmium), D009 (Mercury), D010 (Selenium)

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information****15.1. US Federal Regulations****EPCRA 311/312 Hazard Classifications:****Physical Hazards**

Not applicable

**Health Hazards**

Acute toxicity

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):****Ingredient**HEXAHYDRO-HEXAMETHYL-CYCLOPENTA-  
GAMMA-2-BENZOPYRAN**C.A.S. No**

1222-05-5

**% by Wt**

Trade Secret &lt; 0.3

**15.2. State Regulations****15.3. Chemical Inventories**

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 product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

This product complies with the New Zealand Hazardous Substances and New Organisms Act (1996).

**15.4. International Regulations****This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.****SECTION 16: Other information****NFPA Hazard Classification****Health: 3 Flammability: 1 Instability: 0 Special Hazards: None**

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

**Document Group:** 06-8476-1**Issue Date:** 09/03/25**Version Number:** 23.00**Supersedes Date:** 05/16/25

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