Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Deodorizer - Fresh Scent - Concentrate (Product No. 13, 3M™ Chemical Management Systems)

Product Identification Numbers

ID Number	UPC	ID Number	UPC
61-0000-6336-4		61-0000-6377-8	
61-0000-6408-1		70-0713-1131-3	00-48011-23896-3
70-0716-5878-8	000-51125-85829-8	70-0716-6115-4	
70-0716-8315-8	00-48011-20121-9	70-0716-8316-6	00-48011-23896-3

7100051405, 7010385264, 7010364126, 7010415040, 7010341310, 7010309288, 7100202870

1.2. Recommended use and restrictions on use

Recommended use
Deodorizer, Long-lasting deodorizer leaves a fresh, clean scent.

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Commercial Branding and Transportation Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	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.
Skin Corrosion/Irritation: Category 2.
Serious Eye Damage/Irritation: Category 1.
Skin Sensitizer: Category 1.
Reproductive Toxicity: Category 1B.

2.2. Label elements
Signal word
Danger

Symbols
Corrosion |Exclamation mark |Health Hazard |

Pictograms



Hazard Statements

Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
May damage 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 vapors.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, eye protection, and face protection.

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

Storage:
Store locked up.

Disposal:
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

13% 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	15 - 40 Trade Secret *

Polysorbate 20	9005-64-5	< 30
WATER	7732-18-5	10 - 30
Fragrance (NJTSRN 04499600-6517)	Trade Secret*	< 30
Fragrance Component 18	Trade Secret*	5 - 10
Terpenes and terpenoids, sweet orange-oil	68647-72-3	1 - 7 Trade Secret *
2-Phenoxyethanol	122-99-6	1 - 5 Trade Secret *
4-T-BUTYLCYCLOHEXYL ACETATE	32210-23-4	1 - 5 Trade Secret *
Diethyl Phthalate	84-66-2	1 - 5
Tricyclododecenyl Propionate	17511-60-3	< 2
Fragrance Component 46	Trade Secret*	< 2
Fragrance Component 6	Trade Secret*	< 2
Amyl Salicylate	2050-08-0	< 2
Hexyamethylindanopyran	1222-05-5	< 2
Hexyl Cinnamal	101-86-0	0.1 - 1.5 Trade Secret *
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde	31906-04-4	0.1 - 1.5 Trade Secret *
Linalool	78-70-6	0.1 - 1.5 Trade Secret *
PHENYLETHANOL	60-12-8	0.1 - 1.5 Trade Secret *
Terpineol	98-55-5	0.1 - 1.5 Trade Secret *
TERPINEOL ACETATE	8007-35-0	0.1 - 1.5 Trade Secret *
Amyl Cinnamal	122-40-7	0.1 - 1.5 Trade Secret *
CITRONELLOL	106-22-9	0.1 - 1.5 Trade Secret *
Verdyl Acetate	5413-60-5	0.1 - 1.5 Trade Secret *
Fragrance Component 25	101-84-8	< 0.3
GERANYL ACETATE	105-87-3	< 0.3
Fragrance Component 32	Trade Secret* 3M Unique ID: 690923	< 0.3
Fragrance Component 41	Trade Secret* 3M Unique ID: 977505	< 0.3
Fragrance Component 8	Trade Secret* 3M Unique ID: 192118	< 0.3
Fragrance Component 53	Trade Secret* 3M Unique ID: 608310	< 0.3
ACID BLUE 9	3844-45-9	<= 0.01
ACID RED 52	3520-42-1	< 0.01
ACID VIOLET 12	6625-46-3	< 0.01

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
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust 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 closed 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
For industrial/occupational use only. Not for consumer sale or use. 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. Do not breathe 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.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Fragrance Component 25	101-84-8	ACGIH	TWA(Vapor fraction):1 ppm;STEL(Vapor fraction):2 ppm	
Fragrance Component 25	101-84-8	OSHA	TWA(as vapor):7 mg/m3(1 ppm)	
PHENYLETHANOL	60-12-8	ACGIH	TWA:0.5 ppm	Danger of cutaneous absorption
Diethyl Phthalate	84-66-2	ACGIH	TWA:5 mg/m3	A4: Not class. as human carcin
Fragrance Component 46	Trade Secret	ACGIH	TWA:10 ppm	A4: Not class. as human carcin

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
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	Blue
Odor	Strong Atlantic fresh
Odor threshold	*No Data Available*
pH	6.5 - 8.5
Melting point	*Not Applicable*
Boiling Point	> 212 ºF
Flash Point	> 212 ºF [*Test Method:*Tagliabue Closed Cup]
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	10 mmHg [@ 68 ºF] [*Details:*MITS data]

Relative Vapor Density	*No Data Available*
Relative Density	1 1.03 [@ 23 ºC] [*Ref Std:*WATER=1]
Solubility in Water	Complete
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*Not Applicable*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	98.3 mm2/sec
Average particle size	*Not Applicable*
Bulk density	*Not Applicable*
Volatile Organic Compounds	10 - 30 % [*Test Method:*calculated per CARB title 2]
Percent volatile	20 - 60 %
VOC Less H2O & Exempt Solvents	122 - 366 g/l [*Test Method:*calculated per CARB title 2]

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
Not determined

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
Fragrance Component 18	Dermal	Rabbit	LD50 > 5,010 mg/kg
Fragrance Component 18	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.34 mg/l
Fragrance Component 18	Ingestion	Rat	LD50 > 5,010 mg/kg
Terpenes and terpenoids, sweet orange-oil	Inhalation-Vapor (4 hours)	Mouse	LC50 > 3.14 mg/l
Terpenes and terpenoids, sweet orange-oil	Dermal	Rabbit	LD50 > 5,000 mg/kg
Terpenes and terpenoids, sweet orange-oil	Ingestion	Rat	LD50 4,400 mg/kg
4-T-BUTYLCYCLOHEXYL ACETATE	Dermal	Rabbit	LD50 > 4,680 mg/kg
4-T-BUTYLCYCLOHEXYL ACETATE	Ingestion	Rat	LD50 3,370 mg/kg
Diethyl Phthalate	Dermal	Rat	LD50 11,200 mg/kg
Diethyl Phthalate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.9 mg/l
Diethyl Phthalate	Ingestion	Rat	LD50 8,200 mg/kg
2-Phenoxyethanol	Dermal	Rabbit	LD50 > 2,000 mg/kg
2-Phenoxyethanol	Inhalation-	Rat	LC50 > 1.5 mg/l

	Dust/Mist		
2-Phenoxyethanol	Ingestion	Rat	LD50 1,394 mg/kg
Linalool	Dermal	Rabbit	LD50 5,610 mg/kg
Linalool	Ingestion	Rat	LD50 2,790 mg/kg
Amyl Cinnamal	Dermal	Rabbit	LD50 > 2,000 mg/kg
Amyl Salicylate	Dermal	Rabbit	LD50 > 2,000 mg/kg
CITRONELLOL	Dermal	Rabbit	LD50 2,650 mg/kg
Fragrance Component 6	Dermal	Rabbit	LD50 20,000 mg/kg
Hexyl Cinnamal	Dermal	Rabbit	LD50 > 3,000 mg/kg
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde	Dermal	Rabbit	LD50 > 5,000 mg/kg
Tricyclododecenyl Propionate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Verdyl Acetate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Amyl Cinnamal	Ingestion	Rat	LD50 3,730 mg/kg
Amyl Salicylate	Ingestion	Rat	LD50 2,000 mg/kg
CITRONELLOL	Ingestion	Rat	LD50 3,450 mg/kg
Fragrance Component 6	Ingestion	Rat	LD50 > 10,000 mg/kg
Hexyamethylindanopyran	Dermal	Rat	LD50 > 2,000 mg/kg
Hexyamethylindanopyran	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.04 mg/l
Hexyamethylindanopyran	Ingestion	Rat	LD50 > 2,000 mg/kg
Hexyl Cinnamal	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.12 mg/l
Hexyl Cinnamal	Ingestion	Rat	LD50 3,100 mg/kg
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde	Ingestion	Rat	LD50 > 5,000 mg/kg
TERPINEOL ACETATE	Ingestion	Rat	LD50 5,075 mg/kg
Tricyclododecenyl Propionate	Ingestion	Rat	LD50 > 5,000 mg/kg
Verdyl Acetate	Ingestion	Rat	LD50 4,300 mg/kg
Terpineol	Dermal	similar compounds	LD50 > 2,000 mg/kg
Terpineol	Ingestion	similar compounds	LD50 > 2,000 mg/kg
TERPINEOL ACETATE	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
PHENYLETHANOL	Dermal	Rabbit	LD50 2,535 mg/kg
PHENYLETHANOL	Ingestion	Rat	LD50 1,609 mg/kg
Fragrance Component 46	Dermal	Rabbit	LD50 > 5,000 mg/kg
Fragrance Component 46	Ingestion	Rat	LD50 2,490 mg/kg
Fragrance Component 32	Inhalation-Vapor (4 hours)	Mouse	LC50 3 mg/l
Fragrance Component 32	Dermal	Rabbit	LD50 > 5,000 mg/kg
Fragrance Component 41	Dermal	Rabbit	LD50 > 5,000 mg/kg
Fragrance Component 32	Ingestion	Rat	LD50 3,200 mg/kg
Fragrance Component 41	Ingestion	Rat	LD50 3,900 mg/kg
Fragrance Component 53	Dermal	Rat	LD50 > 2,000 mg/kg
Fragrance Component 53	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.43 mg/l
Fragrance Component 53	Ingestion	Rat	LD50 >300, <2000 mg/kg
Fragrance Component 8	Dermal	Rat	LD50 > 5,000 mg/kg
Fragrance Component 8	Ingestion	Rat	LD50 >2000, <5000 mg/kg
GERANYL ACETATE	Ingestion	Rat	LD50 6,330 mg/kg
GERANYL ACETATE	Dermal	similar compounds	LD50 > 5,460 mg/kg
Fragrance Component 25	Dermal	Rabbit	LD50 > 7,940 mg/kg
Fragrance Component 25	Ingestion	Rat	LD50 2,830 mg/kg
ACID BLUE 9	Ingestion	Rat	LD50 > 2,000 mg/kg
ACID BLUE 9	Dermal	similar health	LD50 estimated to be > 5,000 mg/kg

		hazards	

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
C8-10 Alcohols Ethoxylated Propoxylated	Rabbit	Irritant
Polysorbate 20	Rabbit	Minimal irritation
Fragrance Component 18	Rabbit	No significant irritation
Terpenes and terpenoids, sweet orange-oil	Rabbit	Irritant
Diethyl Phthalate	Rabbit	Minimal irritation
2-Phenoxyethanol	Rabbit	No significant irritation
Linalool	Rabbit	Irritant
Amyl Cinnamal	similar compounds	Irritant
CITRONELLOL	Rabbit	Irritant
Fragrance Component 6	Rabbit	Mild irritant
Hexyamethylindanopyran	In vitro data	No significant irritation
Hexyl Cinnamal	Rabbit	Irritant
Terpineol	Rabbit	Irritant
TERPINEOL ACETATE	Rabbit	Mild irritant
Tricyclododecenyl Propionate	similar compounds	Minimal irritation
Verdyl Acetate	Rabbit	Mild irritant
PHENYLETHANOL	Rabbit	Minimal irritation
Fragrance Component 46	Rabbit	Minimal irritation
Fragrance Component 32	Human	Mild irritant
Fragrance Component 41	Rabbit	Corrosive
Fragrance Component 53	Rat	No significant irritation
Fragrance Component 8	Rabbit	Irritant
GERANYL ACETATE	Rabbit	Irritant
Fragrance Component 25	Rabbit	Mild irritant
ACID BLUE 9	Human	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
C8-10 Alcohols Ethoxylated Propoxylated	Rabbit	Corrosive
Polysorbate 20	Rabbit	No significant irritation
Fragrance Component 18	Rabbit	No significant irritation
Terpenes and terpenoids, sweet orange-oil	Rabbit	Mild irritant
Diethyl Phthalate	Rabbit	Mild irritant
2-Phenoxyethanol	Rabbit	Corrosive
Linalool	Rabbit	Moderate irritant
Amyl Cinnamal	similar compounds	Mild irritant
CITRONELLOL	Rabbit	Severe irritant
Fragrance Component 6	Rabbit	Mild irritant
Hexyamethylindanopyran	In vitro data	No significant irritation
Hexyl Cinnamal	Rabbit	Mild irritant
Terpineol	similar compounds	Moderate irritant
TERPINEOL ACETATE	In vitro data	No significant irritation
Tricyclododecenyl Propionate	similar compounds	Mild irritant
Verdyl Acetate	Rabbit	Severe irritant

PHENYLETHANOL	Rabbit	Corrosive
Fragrance Component 46	Rabbit	Mild irritant
Fragrance Component 32	In vitro data	Mild irritant
Fragrance Component 41	similar health hazards	Corrosive
Fragrance Component 8	Rabbit	Severe irritant
GERANYL ACETATE	similar compounds	No significant irritation
Fragrance Component 25	Rabbit	Severe irritant
ACID BLUE 9	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Polysorbate 20	Guinea pig	Not classified
Fragrance Component 18	Guinea pig	Not classified
Terpenes and terpenoids, sweet orange-oil	Mouse	Sensitizing
4-T-BUTYLCYCLOHEXYL ACETATE	Mouse	Sensitizing
Diethyl Phthalate	Human and animal	Not classified
2-Phenoxyethanol	Guinea pig	Not classified
Linalool	Mouse	Sensitizing
Amyl Cinnamal	Mouse	Sensitizing
CITRONELLOL	Mouse	Sensitizing
Fragrance Component 6	Human	Not classified
Hexyamethylindanopyran	Guinea pig	Not classified
Hexyl Cinnamal	Multiple animal species	Sensitizing
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde	Human and animal	Sensitizing
Terpineol	Mouse	Not classified
TERPINEOL ACETATE	Mouse	Not classified
Tricyclododecenyl Propionate	similar compounds	Not classified
Verdyl Acetate	Human	Not classified
Fragrance Component 46	Guinea pig	Not classified
Fragrance Component 32	Human and animal	Not classified
Fragrance Component 41	Multiple animal species	Sensitizing
Fragrance Component 8	Mouse	Sensitizing
GERANYL ACETATE	Mouse	Sensitizing
Fragrance Component 25	Mouse	Sensitizing
ACID BLUE 9	Mouse	Not classified

Photosensitization

Name	Species	Value
Hexyamethylindanopyran	Guinea pig	Not sensitizing
Fragrance Component 41	Human and	Not sensitizing

	animal	

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
Fragrance Component 18	In Vitro	Not mutagenic
Fragrance Component 18	In vivo	Not mutagenic
Terpenes and terpenoids, sweet orange-oil	In Vitro	Not mutagenic
Terpenes and terpenoids, sweet orange-oil	In vivo	Not mutagenic
Diethyl Phthalate	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-Phenoxyethanol	In Vitro	Not mutagenic
2-Phenoxyethanol	In vivo	Not mutagenic
Linalool	In Vitro	Not mutagenic
Linalool	In vivo	Not mutagenic
Amyl Cinnamal	In Vitro	Not mutagenic
Fragrance Component 6	In Vitro	Not mutagenic
Fragrance Component 6	In vivo	Not mutagenic
Hexyamethylindanopyran	In Vitro	Not mutagenic
Hexyamethylindanopyran	In vivo	Not mutagenic
Hexyl Cinnamal	In Vitro	Not mutagenic
Hexyl Cinnamal	In vivo	Not mutagenic
Terpineol	In Vitro	Not mutagenic
TERPINEOL ACETATE	In Vitro	Not mutagenic
Tricyclododecenyl Propionate	In Vitro	Not mutagenic
Verdyl Acetate	In Vitro	Not mutagenic
Fragrance Component 46	In vivo	Not mutagenic
Fragrance Component 46	In Vitro	Some positive data exist, but the data are not sufficient for classification
Fragrance Component 32	In Vitro	Not mutagenic
Fragrance Component 41	In Vitro	Not mutagenic
Fragrance Component 53	In Vitro	Not mutagenic
Fragrance Component 8	In Vitro	Not mutagenic
GERANYL ACETATE	In Vitro	Not mutagenic
GERANYL ACETATE	In vivo	Not mutagenic
Fragrance Component 25	In Vitro	Not mutagenic
ACID BLUE 9	In Vitro	Not mutagenic
ACID BLUE 9	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Fragrance Component 18	Ingestion	Multiple animal species	Not carcinogenic
Terpenes and terpenoids, sweet orange-oil	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Diethyl Phthalate	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
2-Phenoxyethanol	Ingestion	Multiple animal species	Not carcinogenic
Fragrance Component 46	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
ACID BLUE 9	Ingestion	Rat	Not carcinogenic

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
Fragrance Component 18	Ingestion	Not classified for development	Rat	NOAEL 5,000 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
Diethyl Phthalate	Ingestion	Not classified for female reproduction	Mouse	NOAEL 1,625 mg/kg/day	2 generation
Diethyl Phthalate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,625 mg/kg	2 generation
Diethyl Phthalate	Ingestion	Not classified for development	Rat	NOAEL 1,900 mg/kg/day	during organogenesis
2-Phenoxyethanol	Ingestion	Not classified for female reproduction	Mouse	NOAEL 3,700 mg/kg/day	2 generation
2-Phenoxyethanol	Ingestion	Not classified for male reproduction	Mouse	NOAEL 3,700 mg/kg/day	2 generation
2-Phenoxyethanol	Dermal	Not classified for development	Rabbit	NOAEL 600 mg/kg/day	during organogenesis
2-Phenoxyethanol	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
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
Fragrance Component 6	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during organogenesis
Hexyamethylindanopyran	Ingestion	Not classified for female reproduction	Rat	NOAEL 92 mg/kg/day	2 generation
Hexyamethylindanopyran	Ingestion	Not classified for male reproduction	Rat	NOAEL 94 mg/kg/day	2 generation
Hexyamethylindanopyran	Ingestion	Not classified for development	Rat	NOAEL 150 mg/kg/day	during gestation
Hexyl Cinnamal	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
Hexyl Cinnamal	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	47 days
Hexyl Cinnamal	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	premating into lactation
Terpineol	Ingestion	Toxic to male reproduction	similar compounds	NOAEL 250 mg/kg/day	5 weeks
TERPINEOL ACETATE	Ingestion	Not classified for development	Rat	NOAEL 85 mg/kg/day	premating into lactation
TERPINEOL ACETATE	Ingestion	Toxic to female reproduction	Rat	NOAEL 250 mg/kg/day	premating into lactation
TERPINEOL ACETATE	Ingestion	Toxic to male reproduction	Rat	LOAEL 85 mg/kg/day	90 days
PHENYLETHANOL	Dermal	Not classified for development	Rat	NOAEL 70 mg/kg/day	during organogenesis
PHENYLETHANOL	Ingestion	Not classified for development	Rat	NOAEL Not available	during organogenesis
Fragrance Component 46	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesis

Fragrance Component 32	Ingestion	Toxic to female reproduction	Rat	NOAEL 50 mg/kg/day	premating into lactation
Fragrance Component 32	Ingestion	Toxic to male reproduction	Rat	NOAEL 50 mg/kg/day	35 days
Fragrance Component 32	Ingestion	Toxic to development	Rat	NOAEL 50 mg/kg/day	premating into lactation
Fragrance Component 41	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
Fragrance Component 41	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	28 days
Fragrance Component 41	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	premating into lactation
Fragrance Component 8	Ingestion	Toxic to female reproduction	Rat	NOAEL 25 mg/kg/day	1 generation
Fragrance Component 8	Ingestion	Toxic to male reproduction	Rat	NOAEL 25 mg/kg/day	1 generation
Fragrance Component 8	Ingestion	Toxic to development	Rat	NOAEL 25 mg/kg/day	1 generation
Fragrance Component 25	Ingestion	Toxic to development	Rat	NOAEL 25 mg/kg/day	2 generation
Fragrance Component 25	Ingestion	Toxic to female reproduction	Rat	NOAEL 25 mg/kg/day	2 generation
Fragrance Component 25	Ingestion	Toxic to male reproduction	Rat	NOAEL 25 mg/kg/day	2 generation
ACID BLUE 9	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	3 generation
ACID BLUE 9	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	3 generation
ACID BLUE 9	Ingestion	Not classified for development	Rat	NOAEL 2,000 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
C8-10 Alcohols Ethoxylated Propoxylated	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-Phenoxyethanol	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	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	
CITRONELLOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Fragrance Component 6	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Hexyamethylindanopyran	Dermal	photoirritation	Not classified	Multiple animal species	NOAEL Not Available	
Hexyl Cinnamal	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	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	
TERPINEOL ACETATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Verdyl Acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Fragrance Component 32	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not Available	
Fragrance Component 41	Dermal	photoirritation	Not classified	Human and animal	Irritation Negative	
Fragrance Component 41	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Fragrance Component 8	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
GERANYL ACETATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Polysorbate 20	Ingestion	heart	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Polysorbate 20	Ingestion	endocrine system	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Polysorbate 20	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Polysorbate 20	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Polysorbate 20	Ingestion	liver	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Polysorbate 20	Ingestion	muscles	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Polysorbate 20	Ingestion	nervous system	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Polysorbate 20	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Polysorbate 20	Ingestion	respiratory system	Not classified	Rat	NOAEL 2,000 mg/kg/day	2 years
Fragrance Component 18	Ingestion	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 470 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	heart	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	endocrine system	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	liver	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks

Fragrance Component 18	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 115 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	skin	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	immune system	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	nervous system	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 weeks
Fragrance Component 18	Ingestion	vascular system	Not classified	Rat	NOAEL 3,040 mg/kg/day	105 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	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Terpenes and terpenoids, sweet orange-oil	Ingestion	endocrine system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Terpenes and terpenoids, sweet orange-oil	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Terpenes and terpenoids, sweet orange-oil	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Terpenes and terpenoids, sweet orange-oil	Ingestion	immune system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Terpenes and terpenoids, sweet orange-oil	Ingestion	muscles	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Terpenes and terpenoids, sweet orange-oil	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Terpenes and terpenoids, sweet orange-oil	Ingestion	respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks
Diethyl Phthalate	Dermal	skin	Not classified	Rat	NOAEL 855 mg/kg/day	2 years
Diethyl Phthalate	Dermal	liver	Not classified	Rat	NOAEL 855 mg/kg	2 years
Diethyl Phthalate	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 855 mg/kg	2 years
Diethyl Phthalate	Dermal	heart	Not classified	Rat	NOAEL 855 mg/kg/day	2 years
Diethyl Phthalate	Dermal	gastrointestinal tract	Not classified	Rat	NOAEL 855 mg/kg	2 years
Diethyl Phthalate	Dermal	nervous system	Not classified	Rat	NOAEL 855 mg/kg	2 years
Diethyl Phthalate	Dermal	respiratory system	Not classified	Rat	NOAEL 855 mg/kg	2 years
Diethyl Phthalate	Ingestion	heart	Not classified	Rat	NOAEL 3,710 mg/kg/day	16 weeks
Diethyl Phthalate	Ingestion	nervous system	Not classified	Rat	NOAEL 3,710 mg/kg	16 weeks
Diethyl Phthalate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 3,710 mg/kg	16 weeks
Diethyl Phthalate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 3,160 mg/kg	6 weeks

Diethyl Phthalate	Ingestion	liver	Not classified	Rat	NOAEL 1,753 mg/kg	3 weeks
Diethyl Phthalate	Ingestion	endocrine system	Not classified	Rat	NOAEL 3,710 mg/kg/day	16 weeks
Diethyl Phthalate	Ingestion	muscles	Not classified	Rat	NOAEL 3,710 mg/kg	16 weeks
Diethyl Phthalate	Ingestion	respiratory system	Not classified	Rat	NOAEL 3,710 mg/kg	16 weeks
2-Phenoxyethanol	Dermal	skin	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks
2-Phenoxyethanol	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks
2-Phenoxyethanol	Dermal	liver	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks
2-Phenoxyethanol	Dermal	eyes	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	heart	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	liver	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	immune system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	nervous system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-Phenoxyethanol	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
Linalool	Dermal	skin	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Dermal	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Dermal	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Dermal	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Dermal	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Dermal	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 1,000	91 days

					mg/kg/day	
Linalool	Dermal	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	91 days
Linalool	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 53 mg/kg/day	95 days
Linalool	Ingestion	endocrine system	Not classified	Rat	NOAEL 498 mg/kg/day	95 days
Linalool	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 498 mg/kg/day	95 days
Linalool	Ingestion	liver	Not classified	Rat	NOAEL 498 mg/kg/day	95 days
Linalool	Ingestion	nervous system	Not classified	Rat	NOAEL 498 mg/kg/day	95 days
Linalool	Ingestion	eyes	Not classified	Rat	NOAEL 498 mg/kg/day	95 days
Linalool	Ingestion	immune system	Not classified	Mouse	NOAEL 375 mg/kg/day	5 days
Amyl Cinnamal	Ingestion	liver	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	heart	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	endocrine system	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	immune system	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	muscles	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	nervous system	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	respiratory system	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Amyl Cinnamal	Ingestion	vascular system	Not classified	Rat	NOAEL 287 mg/kg/day	14 weeks
Fragrance Component 6	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 90 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	liver	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	heart	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	endocrine system	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	immune system	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	muscles	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	nervous system	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Fragrance Component 6	Ingestion	respiratory system	Not classified	Rat	NOAEL 270 mg/kg/day	13 weeks
Hexyamethylindanopyran	Ingestion	heart	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	skin	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	endocrine system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150	90 days

					mg/kg/day	
Hexyamethylindanopyran	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	liver	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	immune system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	muscles	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	nervous system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	eyes	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyamethylindanopyran	Ingestion	vascular system	Not classified	Rat	NOAEL 150 mg/kg/day	90 days
Hexyl Cinnamal	Dermal	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg/day	90 days
Hexyl Cinnamal	Dermal	skin	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
Hexyl Cinnamal	Dermal	gastrointestinal tract	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
Hexyl Cinnamal	Dermal	liver	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
Hexyl Cinnamal	Dermal	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
Hexyl Cinnamal	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
TERPINEOL ACETATE	Ingestion	liver	Not classified	Rat	NOAEL 750 mg/kg/day	90 days
TERPINEOL ACETATE	Ingestion	immune system	Not classified	Rat	NOAEL 750 mg/kg/day	90 days
TERPINEOL ACETATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 750 mg/kg/day	90 days
TERPINEOL ACETATE	Ingestion	heart	Not classified	Rat	NOAEL 400 mg/kg/day	20 weeks
TERPINEOL ACETATE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 400 mg/kg/day	20 weeks
TERPINEOL ACETATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 400 mg/kg/day	20 weeks
TERPINEOL ACETATE	Ingestion	muscles	Not classified	Rat	NOAEL 400 mg/kg/day	20 weeks
Fragrance Component 46	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	heart	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	skin	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	hematopoietic	Not classified	Rat	NOAEL	13 weeks

		system			1,750 mg/kg/day	
Fragrance Component 46	Ingestion	liver	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	immune system	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	muscles	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 46	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,750 mg/kg/day	13 weeks
Fragrance Component 32	Inhalation	nervous system	Not classified	Rat	NOAEL 1.23 mg/l	28 days
Fragrance Component 32	Ingestion	liver	Not classified	Rat	NOAEL 200 mg/kg/day	35 days
Fragrance Component 32	Ingestion	muscles	Not classified	Rat	NOAEL 200 mg/kg/day	35 days
Fragrance Component 32	Ingestion	nervous system	Not classified	Rat	NOAEL 200 mg/kg/day	35 days
Fragrance Component 32	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 200 mg/kg/day	35 days
Fragrance Component 32	Ingestion	endocrine system	Not classified	Rat	NOAEL 200 mg/kg/day	35 days
Fragrance Component 32	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 200 mg/kg/day	35 days
Fragrance Component 32	Ingestion	respiratory system	Not classified	Rat	NOAEL 200 mg/kg/day	35 days
Fragrance Component 41	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 1.3 mg/l	9 days
Fragrance Component 41	Inhalation	liver	Not classified	Rat	NOAEL 1.3 mg/l	9 days
Fragrance Component 41	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 1.3 mg/l	9 days
Fragrance Component 41	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.3 mg/l	9 days
Fragrance Component 41	Inhalation	eyes	Not classified	Rat	NOAEL 0.7 mg/l	9 days
Fragrance Component 41	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 750 mg/kg/day	28 days
Fragrance Component 41	Ingestion	liver	Not classified	Rat	NOAEL 750 mg/kg/day	28 days
Fragrance Component 41	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 750 mg/kg/day	28 days
Fragrance Component 41	Ingestion	endocrine system	Not classified	Rat	NOAEL 750 mg/kg/day	28 days
Fragrance Component 41	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 750 mg/kg/day	28 days
Fragrance Component 41	Ingestion	nervous system	Not classified	Rat	NOAEL 750 mg/kg/day	28 days
Fragrance Component 41	Ingestion	eyes	Not classified	Rat	NOAEL 750 mg/kg/day	28 days
Fragrance Component 53	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 100 mg/kg/day	28 days
Fragrance Component 8	Ingestion	heart	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	endocrine system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	liver	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 120 mg/kg/day	90 days

Fragrance Component 8	Ingestion	skin	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	immune system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	muscles	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	nervous system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	eyes	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	respiratory system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 8	Ingestion	vascular system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Fragrance Component 25	Dermal	skin	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Fragrance Component 25	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Fragrance Component 25	Dermal	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Fragrance Component 25	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Fragrance Component 25	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Fragrance Component 25	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	heart	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	liver	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	immune system	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	muscles	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	nervous system	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Inhalation	vascular system	Not classified	Rat	NOAEL 0.14 mg/l	31 days
Fragrance Component 25	Ingestion	heart	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	skin	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	endocrine system	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks

Fragrance Component 25	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	liver	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	immune system	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	muscles	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	nervous system	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	eyes	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
Fragrance Component 25	Ingestion	respiratory system	Not classified	Rat	NOAEL 301 mg/kg/day	13 weeks
ACID BLUE 9	Ingestion	heart	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	skin	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	liver	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	immune system	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	muscles	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	nervous system	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	eyes	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months
ACID BLUE 9	Ingestion	vascular system	Not classified	Rat	NOAEL 1,072 mg/kg/day	30 months

Aspiration Hazard

Name	Value
Terpenes and terpenoids, sweet orange-oil	Aspiration hazard
Fragrance Component 32	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. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

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	C.A.S. No	% by Wt
2-Phenoxyethanol	122-99-6	Trade Secret 1 - 5
Hexyamethylindanopyran	1222-05-5	< 2

15.2. State Regulations
Contact 3M for more information.

15.3. Chemical Inventories
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 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
Contact 3M for more information.

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.

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