



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Quat Disinfectant Cleaner Ready-to-Use (Product No. 5, 3M™ Chemical Management Systems)

1.2. Recommended use and restrictions on use

Recommended use

Disinfectant

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

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable.

Pictograms

Not applicable.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	68424-85-1	< 0.1 Trade Secret *
C12-15 Alcohols Ethoxylated	68131-39-5	< 0.1 Trade Secret *

Didecyldimonium Chloride	7173-51-5	< 0.1 Trade Secret *
Dimethyldioctylammonium Chloride	5538-94-3	< 0.1 Trade Secret *
Ethanol	64-17-5	< 0.1 Trade Secret *
Pine Oil	8002-09-3	< 0.1 Trade Secret *
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES	68424-95-3	< 0.1 Trade Secret *
Quaternium-24	32426-11-2	< 0.1 Trade Secret *
Tetrasodium EDTA	64-02-8	< 0.1 Trade Secret *
Fragrance	Trade Secret*	< 0.1 Trade Secret *
Sodium Metasilicate	6834-92-0	< 0.01 Trade Secret *
Acid Green 25	4403-90-1	< 0.001 Trade Secret *
Acid Violet 43	4430-18-6	< 0.001 Trade Secret *
Acid Yellow 73 Sodium Salt	518-47-8	< 0.001 Trade Secret *
Water	7732-18-5	> 99 Trade Secret *

*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:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

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

If Swallowed:

Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build 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. NOTE: The above precautionary information presumes that this ready-to-use product has been diluted and dispensed from a chemical dispensing system. Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

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
Ethanol	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal carcin.
Ethanol	64-17-5	OSHA	TWA:1900 mg/m3(1000 ppm)	

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

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

Under normal use conditions, eye exposure is not expected to be significant enough to require eye protection.

Skin/hand protection

Under normal use conditions, skin exposure is not expected to be significant enough to require skin protection.

Respiratory protection

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

Half facepiece or full facepiece air-purifying respirator suitable for particulates

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

Appearance

Physical state

Liquid

Color

Light Green

Specific Physical Form:

Liquid

Odor

Moderate Pine

Odor threshold

No Data Available

pH

Approximately 9.6

Melting point

Not Applicable

Boiling Point

> 212 °F

Flash Point

No flash point

Evaporation rate

No Data Available

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

No Data Available

Flammable Limits(UEL)

No Data Available

Vapor Pressure

No Data Available

Vapor Density

No Data Available

Density

Approximately 1 g/ml

Specific Gravity

Approximately 1 [Ref Std: WATER=1]

Solubility in Water

Complete

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

No Data Available

Autoignition temperature

Not Applicable

Decomposition temperature

No Data Available

Viscosity

Approximately < 100 centipoise

Volatile Organic Compounds

< 0.1 % weight [Test Method:calculated per CARB title 2]

VOC Less H₂O & Exempt Solvents

< 20 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

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

None known.

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

None known.

SECTION 11: Toxicological information

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

Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

No known health effects.

Additional Information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES	Dermal	similar compounds	LD50 3,342 mg/kg
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-	Ingestion	similar	LD50 238 mg/kg

ALKYLDIMETHYL, CHLORIDES		compound ds	
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Dermal	Rabbit	LD50 3,413 mg/kg
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.25 mg/l
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	Rat	LD50 398 mg/kg
Quaternium-24	Dermal		LD50 estimated to be > 5,000 mg/kg
Quaternium-24	Ingestion	Rat	LD50 > 5,000 mg/kg
Didecyldimonium Chloride	Dermal	Rabbit	LD50 3,328 mg/kg
Didecyldimonium Chloride	Ingestion	Rat	LD50 264 mg/kg
C12-15 Alcohols Ethoxylated	Ingestion	similar compound ds	LD50 > 2,000 mg/kg
C12-15 Alcohols Ethoxylated	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethanol	Inhalation- Vapor (4 hours)	Rat	LC50 124.7 mg/l
Ethanol	Ingestion	Rat	LD50 17,800 mg/kg
Dimethyldioctylammonium Chloride	Ingestion	Mouse	LD50 > 50 mg/kg
Dimethyldioctylammonium Chloride	Dermal	Rabbit	LD50 170 mg/kg
Tetrasodium EDTA	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 1.5 mg/l
Tetrasodium EDTA	Ingestion	Rat	LD50 1,658 mg/kg
Sodium Metasilicate	Dermal	Rabbit	LD50 > 4,640 mg/kg
Sodium Metasilicate	Ingestion	Rat	LD50 500 mg/kg
Pine Oil	Dermal	Rat	LD50 > 2,000 mg/kg
Pine Oil	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 4.76 mg/l
Pine Oil	Ingestion	Rat	LD50 > 2,000 mg/kg
Fragrance	Ingestion	Rat	LD50 5,075 mg/kg
Fragrance	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES	similar compound ds	Corrosive
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Rabbit	Corrosive
Didecyldimonium Chloride	Rabbit	Corrosive
C12-15 Alcohols Ethoxylated	Rabbit	Mild irritant
Ethanol	Rabbit	No significant irritation
Dimethyldioctylammonium Chloride	Rabbit	Corrosive
Tetrasodium EDTA	Rabbit	No significant irritation
Sodium Metasilicate	Rabbit	Corrosive
Pine Oil	Rabbit	Irritant
Fragrance	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES	similar compound ds	Corrosive
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Rabbit	Corrosive

Didecyldimonium Chloride	Rabbit	Corrosive
C12-15 Alcohols Ethoxylated	similar compounds	No significant irritation
Ethanol	Rabbit	Severe irritant
Dimethyldioctylammonium Chloride	Rabbit	Corrosive
Tetrasodium EDTA	Rabbit	Corrosive
Sodium Metasilicate	In vitro data	Corrosive
Pine Oil	Rabbit	Moderate irritant
Fragrance	In vitro data	No significant irritation

Skin Sensitization

Name	Species	Value
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES	similar compounds	Not classified
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Guinea pig	Not classified
Didecyldimonium Chloride	Guinea pig	Not classified
C12-15 Alcohols Ethoxylated	similar compounds	Not classified
Ethanol	Human	Not classified
Dimethyldioctylammonium Chloride	similar compounds	Not classified
Tetrasodium EDTA	Human and animal	Not classified
Sodium Metasilicate	Mouse	Not classified
Pine Oil	Human and animal	Not classified
Fragrance	Mouse	Not classified

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
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES	In Vitro	Not mutagenic
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	In Vitro	Not mutagenic
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	In vivo	Not mutagenic
Didecyldimonium Chloride	In Vitro	Not mutagenic
Didecyldimonium Chloride	In vivo	Not mutagenic
C12-15 Alcohols Ethoxylated	In Vitro	Not mutagenic
Ethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethanol	In vivo	Some positive data exist, but the data are not sufficient for classification
Dimethyldioctylammonium Chloride	In Vitro	Not mutagenic
Tetrasodium EDTA	In Vitro	Some positive data exist, but the data are not sufficient for classification
Tetrasodium EDTA	In vivo	Some positive data exist, but the data are not sufficient for classification
Sodium Metasilicate	In Vitro	Not mutagenic
Sodium Metasilicate	In vivo	Not mutagenic
Pine Oil	In Vitro	Not mutagenic
Fragrance	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	Rat	Not carcinogenic
Didecyldimonium Chloride	Ingestion	Rat	Not carcinogenic
Ethanol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Tetrasodium EDTA	Ingestion	Multiple animal species	Not carcinogenic

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	Not classified for female reproduction	Rat	NOAEL 48 mg/kg/day	2 generation
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	Not classified for male reproduction	Rat	NOAEL 30.5 mg/kg/day	2 generation
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	Not classified for development	Rat	NOAEL 48 mg/kg/day	2 generation
Didecyldimonium Chloride	Ingestion	Not classified for female reproduction	Rat	NOAEL 137 mg/kg/day	2 generation
Didecyldimonium Chloride	Ingestion	Not classified for male reproduction	Rat	NOAEL 109 mg/kg/day	2 generation
Didecyldimonium Chloride	Ingestion	Not classified for development	Rabbit	NOAEL 12 mg/kg/day	during gestation
C12-15 Alcohols Ethoxylated	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
C12-15 Alcohols Ethoxylated	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	29 days
C12-15 Alcohols Ethoxylated	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	prematuring into lactation
Ethanol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
Ethanol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	prematuring & during gestation
Dimethyldioctylammonium Chloride	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	during organogenesis
Tetrasodium EDTA	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
Tetrasodium EDTA	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
Tetrasodium EDTA	Ingestion	Not classified for development	Rat	LOAEL 1,000 mg/kg/day	during gestation
Sodium Metasilicate	Ingestion	Not classified for development	Mouse	NOAEL 200 mg/kg/day	during gestation
Pine Oil	Ingestion	Not classified for development	Rat	NOAEL 600 mg/kg/day	during gestation
Pine Oil	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	prematuring into lactation
Pine Oil	Ingestion	Toxic to male reproduction	Rat	NOAEL 250 mg/kg/day	5 weeks
Fragrance	Ingestion	Not classified for development	Rat	NOAEL 85 mg/kg/day	prematuring into lactation
Fragrance	Ingestion	Toxic to female reproduction	Rat	NOAEL 250 mg/kg/day	prematuring into lactation
Fragrance	Ingestion	Toxic to male reproduction	Rat	LOAEL 85 mg/kg/day	90 days

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not Available	
Didecyldimonium Chloride	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
C12-15 Alcohols Ethoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not Available	
Ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethanol	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
Ethanol	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
Dimethyldioctylammonium Chloride	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not Available	
Tetrasodium EDTA	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sodium Metasilicate	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
Pine Oil	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Fragrance	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
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Didecyldimonium Chloride	Ingestion	gastrointestinal tract hematopoietic system immune system heart skin endocrine system bone, teeth, nails,	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks

		and/or hair liver muscles nervous system eyes kidney and/or bladder respiratory system vascular system				
C12-15 Alcohols Ethoxylated	Ingestion	endocrine system gastrointestinal tract liver kidney and/or bladder hematopoietic system nervous system eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethanol	Inhalation	hematopoietic system immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
Ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
Tetrasodium EDTA	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.003 mg/l	13 weeks
Tetrasodium EDTA	Inhalation	liver heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system eyes kidney and/or bladder vascular system	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
Tetrasodium EDTA	Ingestion	hematopoietic system liver	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Tetrasodium EDTA	Ingestion	heart gastrointestinal tract muscles kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks
Sodium Metasilicate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 2,400 mg/kg/day	4 weeks
Sodium Metasilicate	Ingestion	endocrine system blood	Not classified	Rat	NOAEL 804 mg/kg/day	3 months
Sodium Metasilicate	Ingestion	heart liver	Not classified	Rat	NOAEL 1,259 mg/kg/day	8 weeks
Pine Oil	Inhalation	hematopoietic system eyes respiratory system	Not classified	Rat	NOAEL 2.23 mg/l	13 weeks
Pine Oil	Ingestion	liver kidney and/or bladder heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles	Not classified	Rat	NOAEL 750 mg/kg/day	5 weeks

		nervous system respiratory system				
Fragrance	Ingestion	liver immune system kidney and/or bladder	Not classified	Rat	NOAEL 750 mg/kg/day	90 days
Fragrance	Ingestion	heart bone, teeth, nails, and/or hair hematopoietic system muscles	Not classified	Rat	NOAEL 400 mg/kg/day	20 weeks

Aspiration Hazard

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

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): 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

Not applicable

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.

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: 1 **Flammability:** 0 **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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