Safety Data Sheet

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Document Group:	24-1364-9	**Version Number:**	11.00
Issue Date:	11/19/26	**Supersedes Date:**	04/21/25

SECTION 1: Identification

1.1. Product identifier
3M™ Neutral Quat Disinfectant Cleaner Concentrate (Product No. 23, 3M™ Chemical Management Systems)

Product Identification Numbers
61-0000-6347-1, 61-0000-6348-9, 61-0000-6383-6, 61-0000-6384-4, 61-0000-6422-2, 70-0713-1495-2, 70-0713-1498-6, 70-0713-1499-4, 70-0713-1500-9, 70-0716-5991-9, 70-0716-6112-1
7100003442, 7100134549, 7010383630, 7000052529, 7010340388, 7010364130, 7010364144, 7010309281, 7010328512, 7010342270, 7010364159, 7100151480

1.2. Recommended use and restrictions on use

Recommended use
Disinfectant, EPA-registered, quaternary disinfectant cleaner for hospital use. Kills HIV-1, MRSA, VRE, Herpes Simplex I and II, and other pathogens. Rinse-free, low-foaming, neutral pH formula.

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
Corrosive to metal: Category 1.
Acute Toxicity (oral): Category 4.
Skin Corrosion/Irritation: Category 1B.
Serious Eye Damage/Irritation: Category 1.
Reproductive Toxicity: Category 2.
Specific Target Organ Toxicity (single exposure): Category 1.
Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements
Signal word
Danger

Symbols
Corrosion |Exclamation mark |Health Hazard |

Pictograms



Hazard Statements
May be corrosive to metals.

Harmful if swallowed.
Causes severe skin burns and eye damage.
Suspected of damaging fertility or the unborn child.
Corrosive to the respiratory tract, if inhaled.

Causes damage to organs through prolonged or repeated exposure: respiratory system.

Precautionary statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original packaging.
Do not breathe vapors.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves, protective clothing, eye protection, face protection, and if needed, respiratory protection (see SDS Section 8).

Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
Get medical attention if you feel unwell.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.

Storage:
Store locked up.
Store in a corrosion-resistant container with a resistant inner liner.

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

2.3. Hazards not otherwise classified
May cause chemical gastrointestinal burns.

4% of the mixture consists of ingredients of unknown acute oral toxicity.

4% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	60 - 90
Didecyldimonium Chloride	7173-51-5	7 - 13 Trade Secret *
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	68424-85-1	3 - 7 Trade Secret *
Octyl Dimethyl Amine Oxide	2605-78-9	1 - 5 Trade Secret *
EDTA	60-00-4	1 - 5 Trade Secret *
Ethanol	64-17-5	1 - 5 Trade Secret *
Sodium Hydroxide	1310-73-2	0.5 - 1.5 Trade Secret *
Methanol	67-56-1	0.1 - 1 Trade Secret *
Fragrance	Trade Secret* 3M Unique ID: 526210	<= 1
Yellow 5	1934-21-0	< 0.1
Acid Green 25	4403-90-1	< 0.05

*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. Get immediate medical attention.

Skin Contact:
Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

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. Do not induce vomiting. Get immediate medical attention.

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

Corrosive to respiratory tract (severe nose and throat pain, chest tightness and pain, wheezing, and breathlessness). Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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. 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 use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with water. Cover, but do not seal for 48 hours. 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. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from acids. Store away from areas where product may come into contact with food or pharmaceuticals.

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

Sodium Hydroxide	1310-73-2	ACGIH	CEIL:2 mg/m3	
Sodium Hydroxide	1310-73-2	OSHA	TWA:2 mg/m3	
Ethanol	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal carcin.
Ethanol	64-17-5	OSHA	TWA:1900 mg/m3(1000 ppm)	
Methanol	67-56-1	ACGIH	TWA:200 ppm;STEL:250 ppm	Danger of cutaneous absorption
Methanol	67-56-1	OSHA	TWA:260 mg/m3(200 ppm)	
Fragrance	Trade Secret	ACGIH	TWA:20 ppm	A4: Not class. as human carcin, Dermal Sensitizer

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
Color	Dark Green
Odor	Moderate Lemon
Odor threshold	*No Data Available*
pH	7 - 8.2
Melting point	*Not Applicable*
Boiling Point	> 212 ºF
Flash Point	No flash point
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	*No Data Available*
Relative Vapor Density	*No Data Available*
Density	0.991 - 1.003 g/ml
Relative Density	0.991 - 1.003 [*Ref Std:*WATER=1]
Solubility in Water	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	17.4 mm2/sec
Volatile Organic Compounds	< 3 % weight
Percent volatile	60 - 90 % weight
VOC Less H2O & Exempt Solvents	< 110 g/l
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 acids

10.6. Hazardous decomposition products

Substance	Condition
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Oxides of Nitrogen	Not Specified

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 Corrosion: Signs/symptoms may include nasal discharge, severe nose and throat pain, chest tightness and pain, coughing up blood, wheezing, and breathlessness, possibly progressing to respiratory failure. May cause additional health effects (see below).

Skin Contact:
Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

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 Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:
Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
Didecyldimonium Chloride	Dermal	Rabbit	LD50 3,328 mg/kg
Didecyldimonium Chloride	Ingestion	Rat	LD50 264 mg/kg
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
EDTA	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.5 mg/l
EDTA	Ingestion	Rat	LD50 4,500 mg/kg
EDTA	Dermal	similar health hazards	LD50 estimated to be 2,000 - 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
Methanol	Dermal		LD50 estimated to be 1,000 - 2,000 mg/kg
Methanol	Inhalation-Vapor		LC50 estimated to be 10 - 20 mg/l
Methanol	Ingestion		LD50 estimated to be 50 - 300 mg/kg
Yellow 5	Ingestion	Mouse	LD50 12,750 mg/kg
Yellow 5	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Fragrance	Dermal	Rat	LD50 > 2,000 mg/kg
Fragrance	Ingestion	Rat	LD50 >300, <2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Didecyldimonium Chloride	Rabbit	Corrosive
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Rabbit	Corrosive
EDTA	Rabbit	No significant irritation
Ethanol	Rabbit	No significant irritation
Sodium Hydroxide	Rabbit	Corrosive
Methanol	Rabbit	Mild irritant
Yellow 5	In vitro data	No significant irritation
Fragrance	In vitro data	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Didecyldimonium Chloride	Rabbit	Corrosive
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Rabbit	Corrosive
EDTA	Rabbit	Severe irritant
Ethanol	Rabbit	Severe irritant
Sodium Hydroxide	Rabbit	Corrosive
Methanol	Rabbit	Moderate irritant
Fragrance	In vitro data	No significant irritation

Skin Sensitization

Name	Species	Value
Didecyldimonium Chloride	Guinea pig	Not classified
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Guinea pig	Not classified
EDTA	Human and animal	Not classified
Ethanol	Human	Not classified
Sodium Hydroxide	Human	Not classified
Methanol	Guinea pig	Not classified
Yellow 5	Mouse	Not classified
Fragrance	Professional judgement	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
Didecyldimonium Chloride	In Vitro	Not mutagenic
Didecyldimonium Chloride	In vivo	Not mutagenic
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	In Vitro	Not mutagenic
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	In vivo	Not mutagenic
EDTA	In Vitro	Some positive data exist, but the data are not sufficient for classification
EDTA	In vivo	Some positive data exist, but the data are not sufficient for classification
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
Sodium Hydroxide	In Vitro	Not mutagenic
Methanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Methanol	In vivo	Some positive data exist, but the data are not sufficient for classification
Yellow 5	In Vitro	Not mutagenic
Yellow 5	In vivo	Not mutagenic
Fragrance	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Didecyldimonium Chloride	Ingestion	Rat	Not carcinogenic
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	Rat	Not carcinogenic
EDTA	Ingestion	Multiple	Not carcinogenic

		animal species	
Ethanol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Methanol	Inhalation	Multiple animal species	Not carcinogenic
Yellow 5	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
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
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
EDTA	Ingestion	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
EDTA	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	4 generation
EDTA	Ingestion	Not classified for development	Rat	LOAEL 1,000 mg/kg/day	during gestation
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	premating & during gestation
Methanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,600 mg/kg/day	21 days
Methanol	Ingestion	Toxic to development	Mouse	LOAEL 4,000 mg/kg/day	during organogenesis
Methanol	Inhalation	Toxic to development	Mouse	NOAEL 1.3 mg/l	during organogenesis
Yellow 5	Ingestion	Not classified for female reproduction	Rat	NOAEL 3,348 mg/kg/day	1 generation
Yellow 5	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,641 mg/kg/day	1 generation
Yellow 5	Ingestion	Not classified for development	Rat	NOAEL 3,348 mg/kg/day	1 generation
Fragrance	Ingestion	Not classified for female reproduction	Rat	NOAEL 466 mg/kg/day	2 generation
Fragrance	Ingestion	Not classified for male reproduction	Rat	NOAEL 466 mg/kg/day	2 generation
Fragrance	Ingestion	Not classified for development	Rat	NOAEL 110 mg/kg/day	during gestation
Fragrance	Inhalation	Not classified for male reproduction	Mouse	NOAEL 0.28 mg/l	90 days

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure

						Duration
Didecyldimonium Chloride	Inhalation	respiratory irritation	May cause respiratory irritation	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	
EDTA	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	
Sodium Hydroxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
Methanol	Inhalation	blindness	Causes damage to organs	Human	NOAEL Not available	occupational exposure
Methanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
Methanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	6 hours
Methanol	Ingestion	blindness	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Methanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
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
Didecyldimonium Chloride	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	immune system	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	heart	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	skin	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	endocrine system	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	liver	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	muscles	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	nervous system	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	eyes	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Didecyldimonium Chloride	Ingestion	respiratory system	Not classified	Rat	NOAEL 175	13 weeks

					mg/kg/day	
Didecyldimonium Chloride	Ingestion	vascular system	Not classified	Rat	NOAEL 175 mg/kg/day	13 weeks
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	heart	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	endocrine system	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	liver	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	immune system	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	nervous system	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	eyes	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	respiratory system	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	Ingestion	vascular system	Not classified	Rat	NOAEL 50 mg/kg/day	95 days
EDTA	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.003 mg/l	13 weeks
EDTA	Inhalation	liver	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	heart	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	skin	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	immune system	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	muscles	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	nervous system	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	eyes	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks
EDTA	Inhalation	vascular system	Not classified	Rat	NOAEL 0.015 mg/l	13 weeks

EDTA	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
EDTA	Ingestion	liver	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
EDTA	Ingestion	heart	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks
EDTA	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks
EDTA	Ingestion	muscles	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks
EDTA	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks
EDTA	Ingestion	respiratory system	Not classified	Rat	NOAEL 5,000 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	Not classified	Rat	NOAEL 25 mg/l	14 days
Ethanol	Inhalation	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
Methanol	Inhalation	liver	Not classified	Rat	NOAEL 6.55 mg/l	4 weeks
Methanol	Inhalation	respiratory system	Not classified	Rat	NOAEL 13.1 mg/l	6 weeks
Methanol	Ingestion	liver	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
Methanol	Ingestion	nervous system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
Yellow 5	Ingestion	heart	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	skin	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	endocrine system	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	gastrointestinal tract	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	liver	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	immune system	Not classified	Mouse	NOAEL 8,103	104 weeks

					mg/kg/day	
Yellow 5	Ingestion	muscles	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	nervous system	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	eyes	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	kidney and/or bladder	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	respiratory system	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Yellow 5	Ingestion	vascular system	Not classified	Mouse	NOAEL 8,103 mg/kg/day	104 weeks
Fragrance	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	liver	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	kidney and/or bladder	Not classified	Mouse	NOAEL 0.28 mg/l	90 days
Fragrance	Inhalation	heart	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	skin	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	endocrine system	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	immune system	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	nervous system	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	eyes	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	respiratory system	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Inhalation	vascular system	Not classified	Rat	NOAEL 2.2 mg/l	90 days
Fragrance	Ingestion	immune system	Not classified	Rat	NOAEL 788 mg/kg/day	21 days

Aspiration Hazard

Name	Value
Fragrance	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

A 3M Product Environmental Data Sheet (PED) is available.

Chemical fate information

A 3M Product Environmental Data Sheet (PED) is available.

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): D002 (Corrosive), D018 (Benzene)

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
Corrosive to metal

Health Hazards
Acute toxicity
Hazard Not Otherwise Classified (HNOC)
Reproductive toxicity
Serious eye damage or eye irritation
Skin Corrosion or Irritation
Specific target organ toxicity (single or repeated exposure)

FIFRA

Status	**Registration Number**
Registered	47371-129-10350

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. Harmful if swallowed.
Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective gloves (rubber or chemical resistant) Harmful if inhaled. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

FIRST AID:
IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

STORAGE AND DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Open dumping is prohibited. Store in original container in areas inaccessible to children.
Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Container Disposal: Nonrefillable container. Do not reuse or refill this container. Wrap empty container and put in trash.

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.

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:** 0 **Instability:** 0 **Special Hazards:** None
Corrosive: Yes

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:	24-1364-9	**Version Number:**	11.00
Issue Date:	11/19/26	**Supersedes Date:**	04/21/25

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