Safety Data Sheet

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Document Group:	24-7722-2	**Version Number:**	2.01
Issue Date:	09/29/26	**Supersedes Date:**	11/09/22

SECTION 1: Identification

1.1. Product identifier
3M™ Adhesion Promoter K540NTUV

1.2. Recommended use and restrictions on use

Recommended use
Automotive - Industrial/Professional use, Adhesion Promoter

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Automotive and Aerospace Solutions 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
Flammable Liquid: Category 2.
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.
Specific Target Organ Toxicity (single exposure): Category 2.
Specific Target Organ Toxicity (single exposure): Category 3.
Aspiration Hazard: Category 1.

2.2. Label elements
Signal word
Danger

Symbols
Flame |Exclamation mark |Health Hazard |

Pictograms



Hazard Statements
Highly flammable liquid and vapor.

Causes serious eye irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
May cause respiratory irritation.
May be fatal if swallowed and enters airways.

May cause damage to organs: respiratory system.

Precautionary statements

Prevention:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating and lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Do not breathe vapors.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, eye protection, and face protection.

Response:
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.
Do NOT induce vomiting.
If eye irritation persists or if skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:
Store in a well-ventilated place. Keep cool.
Store locked up.

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

1% of the mixture consists of ingredients of unknown acute oral toxicity.

1% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
METHYLCYCLOHEXANE	108-87-2	45 - 70 Trade Secret *
N-BUTYL ACETATE	123-86-4	10 - 30 Trade Secret *
ISOPROPYL ALCOHOL	67-63-0	5 - 10 Trade Secret *
CHLORINATED POLYOLEFIN	68609-36-9	1 - 5
POLYAMIDEAMINE	Trade Secret*	1 - 5
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	3101-60-8	0.1 - 1 Trade Secret *
TRIETHYLENETETRAMINE	112-24-3	< 0.1

*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. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:
Do not induce vomiting. Get immediate medical attention.

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic skin reaction (redness, swelling, blistering, and itching). Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. 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
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion

5.3. Special protective actions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. 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
METHYLCYCLOHEXANE	108-87-2	ACGIH	TWA:100 ppm	
METHYLCYCLOHEXANE	108-87-2	OSHA	TWA:2000 mg/m3(500 ppm)	
TRIETHYLENETETRAMINE	112-24-3	AIHA	TWA:6 mg/m3(1 ppm)	SKIN
Butyl acetates, all isomers	123-86-4	ACGIH	TWA:50 ppm;STEL:150 ppm	
N-BUTYL ACETATE	123-86-4	OSHA	TWA:710 mg/m3(150 ppm)	
ISOPROPYL ALCOHOL	67-63-0	ACGIH	TWA:200 ppm;STEL:400 ppm	A4: Not class. as human carcin
ISOPROPYL ALCOHOL	67-63-0	OSHA	TWA:980 mg/m3(400 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. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Indirect Vented Goggles

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

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

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	Straw
Odor	Sharp Solvent
Odor threshold	*No Data Available*
pH	*No Data Available*
Melting point	*Not Applicable*
Boiling Point	101 ºC [*Test Method:*Estimated] [*Details:*based on methylcyclohexane]
Flash Point	-3.9 ºC [*Test Method:*Closed Cup]
Evaporation rate	*No Data Available*
Flammability	Flammable Liquid: Category 2.
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	*No Data Available*
Relative Vapor Density	*No Data Available*
Density	0.81 g/cm3
Relative Density	0.81 [*Ref Std:*WATER=1]
Solubility in Water	*No Data Available*
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	265 ºC [*Test Method:*Estimated]
Decomposition temperature	*No Data Available*
Kinematic Viscosity	4.7 mm2/sec
Hazardous Air Pollutants	0 % weight [*Test Method:*Calculated]
Molecular weight	*No Data Available*
Volatile Organic Compounds	781.6 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*Calculated]
Percent volatile	Approximately 97 % weight [*Details:*Calculated]
VOC Less H2O & Exempt Solvents	781.7 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*Calculated]
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
Heat
Sparks and/or flames

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:
May be harmful if inhaled. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin Contact:
Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:
Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

Additional Health Effects:

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

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	Inhalation-Vapor(4 hr)		No data available; calculated ATE >20 - =50 mg/l
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
METHYLCYCLOHEXANE	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
METHYLCYCLOHEXANE	Ingestion	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
METHYLCYCLOHEXANE	Dermal	similar compounds	LD50 > 2,000 mg/kg
N-BUTYL ACETATE	Dermal	Rabbit	LD50 > 14,112 mg/kg
N-BUTYL ACETATE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 1.8 mg/l
N-BUTYL ACETATE	Inhalation-Vapor (4 hours)	Rat	LC50 > 21 mg/l
N-BUTYL ACETATE	Ingestion	Rat	LD50 > 10,760 mg/kg
ISOPROPYL ALCOHOL	Dermal	Rabbit	LD50 12,870 mg/kg
ISOPROPYL ALCOHOL	Inhalation-Vapor (4 hours)	Rat	LC50 72.6 mg/l
ISOPROPYL ALCOHOL	Ingestion	Rat	LD50 4,710 mg/kg
CHLORINATED POLYOLEFIN	Dermal	Guinea pig	LD50 > 1,000 mg/kg
CHLORINATED POLYOLEFIN	Ingestion	Rat	LD50 > 3,200 mg/kg
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Dermal	Rat	LD50 > 2,000 mg/kg
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	Rat	LD50 > 2,000 mg/kg
TRIETHYLENETETRAMINE	Dermal	Rat	LD50 1,465 mg/kg
TRIETHYLENETETRAMINE	Ingestion	Rat	LD50 1,591 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
METHYLCYCLOHEXANE	Rabbit	No significant irritation
N-BUTYL ACETATE	Rabbit	No significant irritation
ISOPROPYL ALCOHOL	Multiple animal species	No significant irritation
CHLORINATED POLYOLEFIN	Guinea pig	No significant irritation
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Rat	No significant irritation
TRIETHYLENETETRAMINE	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
METHYLCYCLOHEXANE	Rabbit	No significant irritation
N-BUTYL ACETATE	Human	Mild irritant
ISOPROPYL ALCOHOL	Rabbit	Severe irritant
CHLORINATED POLYOLEFIN	Professional judgement	Mild irritant
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Rabbit	No significant irritation
TRIETHYLENETETRAMINE	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
METHYLCYCLOHEXANE	similar compounds	Not classified
N-BUTYL ACETATE	Multiple animal species	Not classified
ISOPROPYL ALCOHOL	Guinea pig	Not classified
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Mouse	Sensitizing
TRIETHYLENETETRAMINE	Guinea pig	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
METHYLCYCLOHEXANE	In Vitro	Not mutagenic
N-BUTYL ACETATE	In Vitro	Not mutagenic
ISOPROPYL ALCOHOL	In Vitro	Not mutagenic
ISOPROPYL ALCOHOL	In vivo	Not mutagenic
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	In vivo	Not mutagenic
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	In Vitro	Some positive data exist, but the data are not sufficient for classification
TRIETHYLENETETRAMINE	In vivo	Not mutagenic
TRIETHYLENETETRAMINE	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
METHYLCYCLOHEXANE	Inhalation	Multiple animal species	Not carcinogenic
ISOPROPYL ALCOHOL	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
TRIETHYLENETETRAMINE	Dermal	Mouse	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
METHYLCYCLOHEXANE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
METHYLCYCLOHEXANE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
N-BUTYL ACETATE	Inhalation	Not classified for female reproduction	Rat	NOAEL 9.5 mg/l	2 generation
N-BUTYL ACETATE	Inhalation	Not classified for male reproduction	Rat	NOAEL 9.5 mg/l	2 generation
N-BUTYL ACETATE	Inhalation	Not classified for development	Rat	NOAEL 3.6 mg/l	2 generation
ISOPROPYL ALCOHOL	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	2 generation
ISOPROPYL ALCOHOL	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
ISOPROPYL ALCOHOL	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during organogenesis

ISOPROPYL ALCOHOL	Inhalation	Not classified for development	Rat	LOAEL 9 mg/l	during gestation
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	Not classified for development	Rat	NOAEL 150 mg/kg/day	during gestation
TRIETHYLENETETRAMINE	Dermal	Not classified for development	Rabbit	NOAEL 125 mg/kg/day	during organogenesis
TRIETHYLENETETRAMINE	Ingestion	Not classified for development	Rat	NOAEL 750 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
METHYLCYCLOHEXANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
METHYLCYCLOHEXANE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
N-BUTYL ACETATE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
N-BUTYL ACETATE	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	not available
N-BUTYL ACETATE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
ISOPROPYL ALCOHOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ISOPROPYL ALCOHOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
ISOPROPYL ALCOHOL	Inhalation	auditory system	Not classified	Guinea pig	NOAEL 13.4 mg/l	24 hours
ISOPROPYL ALCOHOL	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
TRIETHYLENETETRAMINE	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
METHYLCYCLOHEXANE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Inhalation	heart	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Inhalation	skin	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Inhalation	endocrine system	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Inhalation	liver	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Inhalation	immune system	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Inhalation	nervous system	Not classified	Rat	NOAEL 8 mg/l	1 years

METHYLCYCLOHEXANE	Inhalation	respiratory system	Not classified	Rat	NOAEL 8 mg/l	1 years
METHYLCYCLOHEXANE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
METHYLCYCLOHEXANE	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
N-BUTYL ACETATE	Inhalation	endocrine system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	liver	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	nervous system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 4.8 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	respiratory system	Not classified	Rat	NOAEL 4.8 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	heart	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	immune system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	eyes	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-BUTYL ACETATE	Inhalation	vascular system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
ISOPROPYL ALCOHOL	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.3 mg/l	24 months
ISOPROPYL ALCOHOL	Inhalation	nervous system	Not classified	Rat	NOAEL 12 mg/l	13 weeks
ISOPROPYL ALCOHOL	Ingestion	kidney and/or	Not classified	Rat	NOAEL 400	12 weeks

		bladder			mg/kg/day	
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	endocrine system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	heart	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	skin	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	muscles	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	eyes	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
P-TERT-BUTYLPHENYL GLYCIDYL ETHER	Ingestion	vascular system	Not classified	Rat	NOAEL 500 mg/kg/day	90 days

Aspiration Hazard

Name	Value
METHYLCYCLOHEXANE	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.

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal 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): D001 (Ignitable)

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

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Flammable (gases, aerosols, liquids, or solids)

Health Hazards
Aspiration Hazard
Respiratory or Skin Sensitization
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

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
ISOPROPYL ALCOHOL	67-63-0	Trade Secret 5 - 10

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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.

Contact 3M for more information.

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: 2 **Flammability:** 3 **Instability:** 0 **Special Hazards:** None

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

Document Group:	24-7722-2	**Version Number:**	2.01
Issue Date:	09/29/26	**Supersedes Date:**	11/09/22

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