



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Scotch-Weld™ Epoxy Adhesive 105 Clear, Part A

Product Identification Numbers
62-3387-8530-6
7000000856

1.2. Recommended use and restrictions on use

Recommended use
Structural adhesive

1.3. Supplier’s details
MANUFACTURER: 3M
DIVISION: Industrial Adhesives and Tapes Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Acute Toxicity (oral): Category 4.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms



Hazard Statements

Harmful if swallowed.
May cause an allergic skin reaction.

Precautionary statements

Prevention:

Avoid breathing vapors.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
Rinse mouth.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

Disposal:

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

Supplemental Information:

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

2% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Mercaptan Polymer	72244-98-5	85 - 99 Trade Secret *
Propylene oxide modified polyamine	26950-63-0	3 - 10 Trade Secret *
bis(Dimethylaminoethyl)ether	3033-62-3	1 - 5 Trade Secret *
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	6674-22-2	0.3 - 1.9
Triethylenetetramine	112-24-3	0.3 - 1.9
Sulfuric Acid	7664-93-9	< 0.4

*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:

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

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

Hazardous Decomposition or By-Products

Substance

Amine Compounds
Carbon monoxide
Carbon dioxide
Oxides of Nitrogen
Oxides of Sulfur

Condition

During Combustion
During Combustion
During Combustion
During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Triethylenetetramine	112-24-3	AIHA	TWA:6 mg/m3(1 ppm)	SKIN
bis(Dimethylaminoethyl)ether	3033-62-3	ACGIH	TWA:0.05 ppm;STEL:0.15 ppm	Danger of cutaneous absorption
Sulfuric Acid	7664-93-9	ACGIH	TWA(thoracic fraction):0.2 mg/m3	
Sulfuric Acid	7664-93-9	OSHA	TWA:1 mg/m3	
Sulfuric acid, when contained in strong inorganic acid mists	7664-93-9	ACGIH	Limit value not established:	A2: Suspected human carcin.

ACGIH : American Conference of Governmental Industrial Hygienists
 AIHA : American Industrial Hygiene Association
 CMRG : Chemical Manufacturer's Recommended Guidelines
 OSHA : United States Department of Labor - Occupational Safety and Health Administration
 TWA: Time-Weighted-Average
 STEL: Short Term Exposure Limit
 CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

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

None required.

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
Specific Physical Form:	Viscous Liquid
Color	Colorless
Odor	Strong Mercaptan
Odor threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>
Melting point/Freezing point	<i>Not Applicable</i>
Boiling point/Initial boiling point/Boiling range	<i>No Data Available</i>
Flash Point	>=93.3 °C [<i>Test Method:Estimated</i>]
Evaporation rate	<i>No Data Available</i>
Flammability	Not Applicable
Flammable Limits(LEL)	<i>No Data Available</i>
Flammable Limits(UEL)	<i>No Data Available</i>
Vapor Pressure	<=.1 mmHg [<i>@ 20 °C</i>]
Relative Vapor Density	<i>Not Applicable</i>
Density	1.15 g/ml
Relative Density	1.15 [<i>@ 20 °C</i>] [<i>Ref Std:WATER=1</i>]
Water solubility	Nil
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>Not Applicable</i>
Decomposition temperature	<i>No Data Available</i>
Kinematic Viscosity	20,870 mm ² /sec
Volatile Organic Compounds	35 g/l [<i>Details:EU VOC content</i>]
Percent volatile	< 0 % weight [<i>Test Method:Estimated</i>]

VOC Less H2O & Exempt Solvents	< 20 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:when used as intended with Part B]
VOC Less H2O & Exempt Solvents	1.5 % [Test Method:calculated SCAQMD rule 443.1] [Details:when used as intended with Part B]
VOC Less H2O & Exempt Solvents	<= 35 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]
Molecular weight	No Data Available

Particle Characteristics	Not Applicable
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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 is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction

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

Eye Contact:

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

Ingestion:

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

Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Acid mists, strong inorganic	7664-93-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Strong Inorganic Acid Mists Containing Sulfuric Acid	7664-93-9	Known To Be Human Carcinogen.	National Toxicology Program Carcinogens
Isopropanol manufacture (strong-acid process)	7664-93-9	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

Additional Information:

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

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	Inhalation-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
Mercaptan Polymer	Dermal	Rabbit	LD50 > 10,200 mg/kg
Mercaptan Polymer	Ingestion	Rat	LD50 2,600 mg/kg
Propylene oxide modified polyamine	Dermal	Rat	LD50 2,150 mg/kg
Propylene oxide modified polyamine	Ingestion	Rat	LD50 4,500 mg/kg
bis(Dimethylaminoethyl)ether	Dermal	Rabbit	LD50 311 mg/kg
bis(Dimethylaminoethyl)ether	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3.4 mg/l
bis(Dimethylaminoethyl)ether	Inhalation-Vapor (4 hours)	Rat	LC50 > 2.2 mg/l
bis(Dimethylaminoethyl)ether	Ingestion	Rat	LD50 571 mg/kg
Triethylenetetramine	Dermal	Rat	LD50 1,465 mg/kg
Triethylenetetramine	Ingestion	Rat	LD50 1,591 mg/kg
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Dermal	Rabbit	LD50 1,233 mg/kg
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	Rat	LD50 > 300, < 681 mg/kg
Sulfuric Acid	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.375 mg/l
Sulfuric Acid	Ingestion	Rat	LD50 2,140 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Rabbit	Mild irritant
Mercaptan Polymer	Rabbit	No significant irritation
Propylene oxide modified polyamine	Rabbit	Irritant
bis(Dimethylaminoethyl)ether	Rabbit	Corrosive

Triethylenetetramine	Rabbit	Corrosive
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	In vitro data	Corrosive
Sulfuric Acid	Professional judgement	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	Rabbit	Mild irritant
Mercaptan Polymer	Rabbit	Mild irritant
Propylene oxide modified polyamine	Rabbit	Severe irritant
bis(Dimethylaminoethyl)ether	Rabbit	Corrosive
Triethylenetetramine	Rabbit	Corrosive
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	similar health hazards	Corrosive
Sulfuric Acid	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Mercaptan Polymer	Mouse	Sensitizing
Propylene oxide modified polyamine	Mouse	Sensitizing
bis(Dimethylaminoethyl)ether	Multiple animal species	Not classified
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
Mercaptan Polymer	In Vitro	Not mutagenic
Propylene oxide modified polyamine	In Vitro	Some positive data exist, but the data are not sufficient for classification
bis(Dimethylaminoethyl)ether	In Vitro	Not mutagenic
bis(Dimethylaminoethyl)ether	In vivo	Not mutagenic
Triethylenetetramine	In vivo	Not mutagenic
Triethylenetetramine	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	In Vitro	Not mutagenic
Sulfuric Acid	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Triethylenetetramine	Dermal	Mouse	Not carcinogenic
Sulfuric Acid	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Sulfuric Acid	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
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Propylene oxide modified polyamine	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premat ing into lactation
Propylene oxide modified polyamine	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	43 days
Propylene oxide modified polyamine	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	premat ing into lactation
bis(Dimethylaminoethyl)ether	Dermal	Not classified for development	Rabbit	NOAEL 12 mg/kg/day	during organogenesi s
Triethylenetetramine	Dermal	Not classified for development	Rabbit	NOAEL 125 mg/kg/day	during organogenesi s
Triethylenetetramine	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	during organogenesi s
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	Not classified for female reproduction	Rat	NOAEL 150 mg/kg/day	premat ing into lactation
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	Not classified for male reproduction	Rat	NOAEL 150 mg/kg/day	29 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	Not classified for development	Rat	NOAEL 150 mg/kg/day	during gestation
Sulfuric Acid	Inhalation	Not classified for development	Rat	NOAEL 19.3 mg/m3	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Propylene oxide modified polyamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
bis(Dimethylaminoethyl)ether	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
Triethylenetetramine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sulfuric Acid	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL Not Available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Mercaptan Polymer	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 75 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	skin	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days

Mercaptan Polymer	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Mercaptan Polymer	Ingestion	vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
Propylene oxide modified polyamine	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	43 days
bis(Dimethylaminoethyl)et her	Dermal	skin	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	heart	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	endocrine system	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	gastrointestinal tract	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	liver	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	immune system	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	muscles	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	nervous system	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	respiratory system	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Dermal	vascular system	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
bis(Dimethylaminoethyl)et her	Inhalation	skin	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	eyes	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	heart	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	liver	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	immune system	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	nervous system	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
bis(Dimethylaminoethyl)et her	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	7 days
bis(Dimethylaminoethyl)et her	Ingestion	liver	Not classified	Rat	NOAEL 150 mg/kg/day	7 days
bis(Dimethylaminoethyl)et	Ingestion	kidney and/or	Not classified	Rat	NOAEL 150	7 days

her		bladder			mg/kg/day	
bis(Dimethylaminoethyl)ether	Ingestion	respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	7 days
bis(Dimethylaminoethyl)ether	Ingestion	heart	Not classified	Rat	NOAEL 220 mg/kg/day	7 days
bis(Dimethylaminoethyl)ether	Ingestion	endocrine system	Not classified	Rat	NOAEL 220 mg/kg/day	7 days
bis(Dimethylaminoethyl)ether	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 220 mg/kg/day	7 days
bis(Dimethylaminoethyl)ether	Ingestion	nervous system	Not classified	Rat	NOAEL 220 mg/kg/day	7 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	heart	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	skin	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	endocrine system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	liver	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	immune system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	muscles	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	nervous system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	eyes	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	respiratory system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE	Ingestion	vascular system	Not classified	Rat	NOAEL 120 mg/kg/day	90 days
Sulfuric Acid	Inhalation	respiratory system	Not classified	Rat	NOAEL 5.52 mg/m3	28 days

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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

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

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not Applicable.

Health Hazards

Acute toxicity

Respiratory or Skin Sensitization

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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 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:** 1 **Instability:** 1 **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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