



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 11/05/25  | <b>Supersedes Date:</b> | 07/20/20 |

### Product identifier

3M™ Applique Edge Sealer ES2000

### ID Number(s):

70-0062-7013-9, 70-0062-7018-8, 70-2022-8147-6

7000048849, 7100181764

### Recommended use

Edge sealer for applique film.

### Supplier's details

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                          |
| <b>DIVISION:</b>     | Automotive and Aerospace Solutions Division |

|                   |                                         |
|-------------------|-----------------------------------------|
| <b>ADDRESS:</b>   | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b> | 1-888-3M HELPS (1-888-364-3577)         |

### Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

18-1571-1, 16-4356-8

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| <b>Document Group:</b> | 16-4356-8 | <b>Version Number:</b>  | 11.00    |
| <b>Issue Date:</b>     | 11/05/25  | <b>Supersedes Date:</b> | 04/11/22 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ES-2000 Edge Sealer, Part A

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Edge sealer., Part A of a Urethane Sealant

#### 1.3. Supplier's details

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                          |
| <b>DIVISION:</b>     | Automotive and Aerospace Solutions Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA     |
| <b>Telephone:</b>    | 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

Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms



**Hazard Statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
May cause respiratory irritation.

**Precautionary statements****Prevention:**

Avoid breathing vapors.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.  
In case of inadequate ventilation wear respiratory protection.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If experiencing respiratory symptoms or if skin irritation or rash occurs: Call a POISON CENTER or doctor.  
Take off contaminated clothing and wash it before reuse.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

**Disposal:**

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

**Supplemental Information:**

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

**SECTION 3: Composition/information on ingredients**

| <b>Ingredient</b>                  | <b>C.A.S. No.</b> | <b>% by Wt</b>          |
|------------------------------------|-------------------|-------------------------|
| HEXAMETHYLENE DIISOCYANATE POLYMER | 28182-81-2        | 80 - 100 Trade Secret * |
| HEXAMETHYLENE DIISOCYANATE         | 822-06-0          | < 0.2                   |

\*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**

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). 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**

DO NOT USE WATER In case of fire: Use a carbon dioxide or dry chemical extinguisher 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**

Carbon monoxide  
Carbon dioxide  
Hydrogen Cyanide  
Oxides of Nitrogen

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion

**5.3. Special protective actions for fire-fighters**

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

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

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

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. 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 container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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

Do not use in a confined area with minimal air exchange. 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 in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. Store away from acids. Store away from strong bases. 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.

| <b>Ingredient</b>             | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b> | <b>Additional Comments</b> |
|-------------------------------|-------------------|---------------|-------------------|----------------------------|
| HEXAMETHYLENE<br>DIISOCYANATE | 822-06-0          | ACGIH         | TWA:0.005 ppm     |                            |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Butyl Rubber, Polyethylene, Polymer laminate

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

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

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                   |                                           |
|---------------------------------------------------|-------------------------------------------|
| Physical state                                    | Liquid                                    |
| Specific Physical Form:                           | Paste                                     |
| Color                                             | Pale Yellow                               |
| Odor                                              | Odorless                                  |
| Odor threshold                                    | No Data Available                         |
| pH                                                | Not Applicable                            |
| Melting point/Freezing point                      | No Data Available                         |
| Boiling point/Initial boiling point/Boiling range | 203 °C                                    |
| Flash Point                                       | Flash point > 93 °C (200 °F)              |
| Evaporation rate                                  | No Data Available                         |
| Flammability                                      | Not Applicable                            |
| Flammable Limits(LEL)                             | No Data Available                         |
| Flammable Limits(UEL)                             | No Data Available                         |
| Relative Vapor Density                            | No Data Available                         |
| Density                                           | 1.16 g/l                                  |
| Relative Density                                  | 1.16 [Ref Std: WATER=1]                   |
| Water solubility                                  | Appreciable [Details: CONDITIONS: reacts] |
| 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                               | 34,483 mm <sup>2</sup> /sec               |
| Volatile Organic Compounds                        | 2.3 g/l                                   |
| Percent volatile                                  | No Data Available                         |
| VOC Less H <sub>2</sub> O & Exempt Solvents       | 2.3 g/l                                   |
| Molecular weight                                  | No Data Available                         |

|                          |                |
|--------------------------|----------------|
| 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 may occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Strong acids

Strong bases

Strong oxidizing agents

Water

### 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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

#### Skin Contact:

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

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

#### Additional Information:

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

#### 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 >50 mg/l     |
| Overall product                    | Ingestion                      |                        | No data available; calculated ATE >5,000 mg/kg |
| HEXAMETHYLENE DIISOCYANATE POLYMER | Inhalation-Dust/Mist (4 hours) | Professional judgement | LC50 estimated to be 1 - 5 mg/l                |
| HEXAMETHYLENE DIISOCYANATE POLYMER | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                             |
| HEXAMETHYLENE DIISOCYANATE POLYMER | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                             |
| HEXAMETHYLENE DIISOCYANATE         | Dermal                         | Rat                    | LD50 > 7,000 mg/kg                             |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 0.124 mg/l                                |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation-Vapor (4 hours)     | Rat                    | LC50 0.124 mg/l                                |
| HEXAMETHYLENE DIISOCYANATE         | Ingestion                      | Rat                    | LD50 746 mg/kg                                 |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                               | Species | Value              |
|------------------------------------|---------|--------------------|
| HEXAMETHYLENE DIISOCYANATE POLYMER | Rabbit  | Minimal irritation |
| HEXAMETHYLENE DIISOCYANATE         | Rabbit  | Corrosive          |

### Serious Eye Damage/Irritation

| Name                               | Species | Value         |
|------------------------------------|---------|---------------|
| HEXAMETHYLENE DIISOCYANATE POLYMER | Rabbit  | Mild irritant |
| HEXAMETHYLENE DIISOCYANATE         | Rabbit  | Corrosive     |

### Skin Sensitization

| Name                               | Species                 | Value       |
|------------------------------------|-------------------------|-------------|
| HEXAMETHYLENE DIISOCYANATE POLYMER | Guinea pig              | Sensitizing |
| HEXAMETHYLENE DIISOCYANATE         | Multiple animal species | Sensitizing |

### Respiratory Sensitization

| Name                               | Species           | Value          |
|------------------------------------|-------------------|----------------|
| HEXAMETHYLENE DIISOCYANATE POLYMER | similar compounds | Not classified |
| HEXAMETHYLENE DIISOCYANATE         | Human and animal  | Sensitizing    |

### Germ Cell Mutagenicity

| Name                               | Route    | Value         |
|------------------------------------|----------|---------------|
| HEXAMETHYLENE DIISOCYANATE POLYMER | In Vitro | Not mutagenic |
| HEXAMETHYLENE DIISOCYANATE POLYMER | In vivo  | Not mutagenic |
| HEXAMETHYLENE DIISOCYANATE         | In Vitro | Not mutagenic |
| HEXAMETHYLENE DIISOCYANATE         | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name                       | Route      | Species | Value            |
|----------------------------|------------|---------|------------------|
| HEXAMETHYLENE DIISOCYANATE | Inhalation | Rat     | Not carcinogenic |

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

| Name                       | Route      | Value                                  | Species | Test Result      | Exposure Duration |
|----------------------------|------------|----------------------------------------|---------|------------------|-------------------|
| HEXAMETHYLENE DIISOCYANATE | Inhalation | Not classified for female reproduction | Rat     | NOAEL 0.002 mg/l | 7 weeks           |
| HEXAMETHYLENE DIISOCYANATE | Inhalation | Not classified for development         | Rat     | NOAEL 0.002 mg/l | 7 weeks           |
| HEXAMETHYLENE DIISOCYANATE | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 0.014 mg/l | 4 weeks           |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                               | Route      | Target Organ(s)        | Value                            | Species          | Test Result         | Exposure Duration     |
|------------------------------------|------------|------------------------|----------------------------------|------------------|---------------------|-----------------------|
| HEXAMETHYLENE DIISOCYANATE POLYMER | Inhalation | respiratory irritation | May cause respiratory irritation |                  | NOAEL Not available |                       |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available |                       |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation | blood                  | Not classified                   | Human            | NOAEL Not available | occupational exposure |

**Specific Target Organ Toxicity - repeated exposure**

| Name                               | Route      | Target Organ(s)       | Value          | Species | Test Result       | Exposure Duration |
|------------------------------------|------------|-----------------------|----------------|---------|-------------------|-------------------|
| HEXAMETHYLENE DIISOCYANATE POLYMER | Inhalation | immune system         | Not classified | Rat     | NOAEL 0.084 mg/l  | 2 weeks           |
| HEXAMETHYLENE DIISOCYANATE POLYMER | Inhalation | blood                 | Not classified | Rat     | NOAEL 0.084 mg/l  | 2 weeks           |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation | liver                 | Not classified | Rat     | NOAEL 0.002 mg/l  | 3 weeks           |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation | kidney and/or bladder | Not classified | Rat     | NOAEL 0.002 mg/l  | 3 weeks           |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation | endocrine system      | Not classified | Rat     | NOAEL 0.0014 mg/l | 4 weeks           |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation | blood                 | Not classified | Rat     | NOAEL 0.0012 mg/l | 2 years           |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation | nervous system        | Not classified | Rat     | NOAEL 0.002 mg/l  | 7 weeks           |
| HEXAMETHYLENE DIISOCYANATE         | Inhalation | heart                 | Not classified | Rat     | NOAEL 0.001 mg/l  | 90 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):** D003 (Reactive)

## 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

Respiratory or Skin Sensitization

Specific target organ toxicity (single or repeated exposure)

### 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:** 1 **Instability:** 1 **Special Hazards:** Reacts with Water

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:** 16-4356-8**Version Number:** 11.00**Issue Date:** 11/05/25**Supersedes Date:** 04/11/22

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|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 18-1571-1 | <b>Version Number:</b>  | 7.01     |
| <b>Issue Date:</b>     | 03/19/26  | <b>Supersedes Date:</b> | 11/05/25 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ ES-2000 Edge Sealer, Part B

#### Product Identification Numbers

LA-D100-0048-7

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Edge Sealer for Applique, Part B of a Urethane Sealer.

#### 1.3. Supplier's details

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                          |
| <b>DIVISION:</b>     | Automotive and Aerospace Solutions Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA     |
| <b>Telephone:</b>    | 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

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

May cause an allergic skin reaction.  
May damage fertility or the unborn child.

**Precautionary statements****Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing vapors.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
IF exposed or concerned: Get medical attention.  
If skin irritation or rash occurs: Get medical attention.  
Take off contaminated clothing and wash it before reuse.

**Storage:**

Store locked up.

**Disposal:**

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

**SECTION 3: Composition/information on ingredients**

| Ingredient                                          | C.A.S. No.    | % by Wt                |
|-----------------------------------------------------|---------------|------------------------|
| POLYESTER POLYOL 1                                  | Trade Secret* | 50 - 70                |
| POLYESTER POLYOL 2                                  | 37625-56-2    | 10 - 30                |
| POLYESTER                                           | 27925-07-1    | 5 - 10                 |
| POLYESTER DIOL                                      | 31831-53-5    | 5 - 10                 |
| ACRYLIC POLYMER                                     | 6197-30-4     | 1 - 5 Trade Secret *   |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate    | 41556-26-7    | 0.1 - 1 Trade Secret * |
| Catalyst                                            | 68298-38-4    | 0.1 - 1 Trade Secret * |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | 82919-37-7    | 0.1 - 1 Trade Secret * |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

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**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Carbon monoxide

Carbon dioxide

Oxides of Nitrogen

**Condition**

During Combustion

During Combustion

During Combustion

**5.3. Special protective actions for fire-fighters**

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

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

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

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up**

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially

available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with 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

Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. 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                                            |
|---------------------------------|------------|--------|--------------------------------------------|----------------------------------------------------------------|
| TIN, ORGANIC COMPOUNDS, AS /SN/ | 68298-38-4 | OSHA   | TWA(as Sn):0.1 mg/m3                       |                                                                |
| Tin, organic compounds, as Sn   | 68298-38-4 | ACGIH  | TWA(as Sn):0.1 mg/m3;STEL(as Sn):0.2 mg/m3 | A4: Not class. as human carcin, Danger of cutaneous absorption |

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

No engineering controls required.

#### 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

None required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                   |                              |
|---------------------------------------------------|------------------------------|
| Physical state                                    | Liquid                       |
| Specific Physical Form:                           | Viscous                      |
| Color                                             | Gold                         |
| Odor                                              | Moderate Polyester           |
| Odor threshold                                    | No Data Available            |
| pH                                                | Not Applicable               |
| Melting point/Freezing point                      | No Data Available            |
| Boiling point/Initial boiling point/Boiling range | >=126.7 °C                   |
| Flash Point                                       | Flash point > 93 °C (200 °F) |
| Evaporation rate                                  | Not Applicable               |
| Flammability                                      | Not Applicable               |
| Flammable Limits(LEL)                             | Not Applicable               |
| Flammable Limits(UEL)                             | Not Applicable               |
| Relative Vapor Density                            | No Data Available            |
| Density                                           | 1.14 kg/l                    |
| Relative Density                                  | 1.14 [Ref Std: WATER=1]      |
| Water solubility                                  | Slight (less than 10%)       |
| 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                               | 36,842 mm <sup>2</sup> /sec  |
| Volatile Organic Compounds                        | 0.8 g/l                      |
| Percent volatile as Text                          | Negligible                   |
| VOC Less H <sub>2</sub> O & Exempt Solvents       | 0.8 g/l                      |
| Molecular weight                                  | No Data Available            |

|                          |                |
|--------------------------|----------------|
| 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

#### 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:**

No known health effects.

##### **Skin Contact:**

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

May cause additional health effects (see below).

##### **Additional Health Effects:**

##### **Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

##### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

##### **Acute Toxicity**

| Name               | Route     | Species      | Value                                          |
|--------------------|-----------|--------------|------------------------------------------------|
| Overall product    | Dermal    |              | No data available; calculated ATE >5,000 mg/kg |
| Overall product    | Ingestion |              | No data available; calculated ATE >5,000 mg/kg |
| POLYESTER POLYOL 2 | Dermal    | Professional | LD50 estimated to be > 5,000 mg/kg             |

|                                                     |           | judgement              |                                          |
|-----------------------------------------------------|-----------|------------------------|------------------------------------------|
| POLYESTER POLYOL 2                                  | Ingestion | Rat                    | LD50 > 2,000 mg/kg                       |
| POLYESTER                                           | Dermal    |                        | LD50 estimated to be > 5,000 mg/kg       |
| POLYESTER                                           | Ingestion |                        | LD50 estimated to be > 5,000 mg/kg       |
| POLYESTER DIOL                                      | Ingestion | Rat                    | LD50 > 2,000 mg/kg                       |
| POLYESTER DIOL                                      | Dermal    | similar health hazards | LD50 estimated to be 2,000 - 5,000 mg/kg |
| ACRYLIC POLYMER                                     | Dermal    | Rat                    | LD50 > 2,000 mg/kg                       |
| ACRYLIC POLYMER                                     | Ingestion | Rat                    | LD50 > 5,000 mg/kg                       |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate   | Dermal    | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate   | Ingestion | Rat                    | LD50 3,125 mg/kg                         |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Dermal    | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | Rat                    | LD50 3,125 mg/kg                         |
| Catalyst                                            | Ingestion |                        | LD50 estimated to be 300 - 2,000 mg/kg   |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                                | Species           | Value                     |
|-----------------------------------------------------|-------------------|---------------------------|
| POLYESTER POLYOL 2                                  | Rabbit            | No significant irritation |
| POLYESTER DIOL                                      | Rabbit            | No significant irritation |
| ACRYLIC POLYMER                                     | Rabbit            | No significant irritation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate   | Rabbit            | Minimal irritation        |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Rabbit            | Minimal irritation        |
| Catalyst                                            | similar compounds | Irritant                  |

### Serious Eye Damage/Irritation

| Name                                                | Species           | Value                     |
|-----------------------------------------------------|-------------------|---------------------------|
| POLYESTER POLYOL 2                                  | Rabbit            | No significant irritation |
| POLYESTER DIOL                                      | Rabbit            | No significant irritation |
| ACRYLIC POLYMER                                     | Rabbit            | No significant irritation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate   | Rabbit            | Mild irritant             |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Rabbit            | Mild irritant             |
| Catalyst                                            | similar compounds | Severe irritant           |

### Skin Sensitization

| Name                                                | Species    | Value                                                                        |
|-----------------------------------------------------|------------|------------------------------------------------------------------------------|
| POLYESTER POLYOL 2                                  | Mouse      | Not classified                                                               |
| POLYESTER DIOL                                      | Mouse      | Not classified                                                               |
| ACRYLIC POLYMER                                     | Human      | Some positive data exist, but the data are not sufficient for classification |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate   | Guinea pig | Sensitizing                                                                  |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Guinea pig | Sensitizing                                                                  |
| Catalyst                                            | Guinea pig | Sensitizing                                                                  |

### Photosensitization

| Name            | Species    | Value           |
|-----------------|------------|-----------------|
| ACRYLIC POLYMER | Guinea pig | Not 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                                                                        |
|-----------------------------------------------------|----------|------------------------------------------------------------------------------|
| POLYESTER POLYOL 2                                  | In Vitro | Not mutagenic                                                                |
| POLYESTER DIOL                                      | In Vitro | Not mutagenic                                                                |
| ACRYLIC POLYMER                                     | In Vitro | Not mutagenic                                                                |
| ACRYLIC POLYMER                                     | In vivo  | Not mutagenic                                                                |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l) sebacate  | In vivo  | Not mutagenic                                                                |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l) sebacate  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | In vivo  | Not mutagenic                                                                |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Catalyst                                            | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Catalyst                                            | In vivo  | Mutagenic                                                                    |

### Carcinogenicity

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

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                                                | Route     | Value                                | Species | Test Result           | Exposure Duration        |
|-----------------------------------------------------|-----------|--------------------------------------|---------|-----------------------|--------------------------|
| POLYESTER POLYOL 2                                  | Ingestion | Not classified for development       | Rat     | NOAEL 1,000 mg/kg     | during gestation         |
| POLYESTER DIOL                                      | Ingestion | Not classified for development       | Rat     | NOAEL 800 mg/kg/day   | during gestation         |
| ACRYLIC POLYMER                                     | Ingestion | Not classified for male reproduction | Rat     | NOAEL 534 mg/kg/day   | 2 generation             |
| ACRYLIC POLYMER                                     | Dermal    | Not classified for development       | Rabbit  | NOAEL 300 mg/kg/day   | during organogenesis     |
| ACRYLIC POLYMER                                     | Ingestion | Not classified for development       | Rat     | NOAEL 163 mg/kg/day   | 2 generation             |
| ACRYLIC POLYMER                                     | Ingestion | Toxic to female reproduction         | Rat     | NOAEL 163 mg/kg/day   | 2 generation             |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l) sebacate  | Ingestion | Not classified for male reproduction | Rat     | NOAEL 1,493 mg/kg/day | 29 days                  |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l) sebacate  | Ingestion | Not classified for development       | Rat     | NOAEL 209 mg/kg/day   | premating into lactation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l) sebacate  | Ingestion | Toxic to female reproduction         | Rat     | NOAEL 804 mg/kg/day   | premating into lactation |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | Not classified for male reproduction | Rat     | NOAEL 1,493 mg/kg/day | 29 days                  |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | Not classified for development       | Rat     | NOAEL 209 mg/kg/day   | premating into lactation |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | Toxic to female reproduction         | Rat     | NOAEL 804 mg/kg/day   | premating into lactation |
| Catalyst                                            | Ingestion | Toxic to female reproduction         | Rat     | NOAEL 2 mg/kg/day     | premating into lactation |
| Catalyst                                            | Ingestion | Toxic to development                 | Rat     | NOAEL 2.5 mg/kg/day   | during gestation         |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name     | Route     | Target Organ(s) | Value                   | Species | Test Result   | Exposure Duration |
|----------|-----------|-----------------|-------------------------|---------|---------------|-------------------|
| Catalyst | Ingestion | immune system   | Causes damage to organs | Rat     | LOAEL 5 mg/kg |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                             | Route     | Target Organ(s)        | Value                                                                        | Species | Test Result           | Exposure Duration |
|--------------------------------------------------|-----------|------------------------|------------------------------------------------------------------------------|---------|-----------------------|-------------------|
| POLYESTER DIOL                                   | Ingestion | heart                  | Not classified                                                               | Rat     | NOAEL 500 mg/kg/day   | 90 days           |
| POLYESTER DIOL                                   | Ingestion | endocrine system       | Not classified                                                               | Rat     | NOAEL 500 mg/kg/day   | 90 days           |
| POLYESTER DIOL                                   | Ingestion | hematopoietic system   | Not classified                                                               | Rat     | NOAEL 500 mg/kg/day   | 90 days           |
| POLYESTER DIOL                                   | Ingestion | liver                  | Not classified                                                               | Rat     | NOAEL 500 mg/kg/day   | 90 days           |
| POLYESTER DIOL                                   | Ingestion | immune system          | Not classified                                                               | Rat     | NOAEL 500 mg/kg/day   | 90 days           |
| POLYESTER DIOL                                   | Ingestion | nervous system         | Not classified                                                               | Rat     | NOAEL 500 mg/kg/day   | 90 days           |
| POLYESTER DIOL                                   | Ingestion | eyes                   | Not classified                                                               | Rat     | NOAEL 500 mg/kg/day   | 90 days           |
| ACRYLIC POLYMER                                  | Dermal    | skin                   | Not classified                                                               | Rabbit  | NOAEL 534 mg/kg/day   | 90 days           |
| ACRYLIC POLYMER                                  | Dermal    | liver                  | Not classified                                                               | Rabbit  | NOAEL 534 mg/kg/day   | 90 days           |
| ACRYLIC POLYMER                                  | Dermal    | hematopoietic system   | Not classified                                                               | Rabbit  | NOAEL 534 mg/kg/day   | 90 days           |
| ACRYLIC POLYMER                                  | Dermal    | kidney and/or bladder  | Not classified                                                               | Rabbit  | NOAEL 534 mg/kg/day   | 90 days           |
| ACRYLIC POLYMER                                  | Ingestion | endocrine system       | Not classified                                                               | Rat     | NOAEL 1,085 mg/kg/day | 90 days           |
| ACRYLIC POLYMER                                  | Ingestion | hematopoietic system   | Not classified                                                               | Rat     | NOAEL 1,085 mg/kg/day | 90 days           |
| ACRYLIC POLYMER                                  | Ingestion | liver                  | Not classified                                                               | Rat     | NOAEL 1,085 mg/kg/day | 90 days           |
| ACRYLIC POLYMER                                  | Ingestion | kidney and/or bladder  | Not classified                                                               | Rat     | NOAEL 1,085 mg/kg/day | 90 days           |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | eyes                   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 300 mg/kg/day   | 28 days           |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | gastrointestinal tract | Not classified                                                               | Rat     | NOAEL 1,493 mg/kg/day | 29 days           |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | liver                  | Not classified                                                               | Rat     | NOAEL 1,493 mg/kg/day | 29 days           |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | immune system          | Not classified                                                               | Rat     | NOAEL 1,493 mg/kg/day | 29 days           |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | heart                  | Not classified                                                               | Rat     | NOAEL 1,493 mg/kg/day | 29 days           |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | endocrine system       | Not classified                                                               | Rat     | NOAEL 1,493 mg/kg/day | 29 days           |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | hematopoietic system   | Not classified                                                               | Rat     | NOAEL 1,493 mg/kg/day | 29 days           |

|                                                     |           |                        |                                                                              |     |                             |         |
|-----------------------------------------------------|-----------|------------------------|------------------------------------------------------------------------------|-----|-----------------------------|---------|
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate   | Ingestion | nervous system         | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate   | Ingestion | kidney and/or bladder  | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | eyes                   | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300<br>mg/kg/day      | 28 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | gastrointestinal tract | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | liver                  | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | immune system          | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | heart                  | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | endocrine system       | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | hematopoietic system   | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | nervous system         | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL SEBACATE | Ingestion | kidney and/or bladder  | Not classified                                                               | Rat | NOAEL<br>1,493<br>mg/kg/day | 29 days |
| Catalyst                                            | Ingestion | liver                  | Causes damage to organs through prolonged or repeated exposure               | Rat | NOAEL 2<br>mg/kg/day        | 2 weeks |
| Catalyst                                            | Ingestion | immune system          | Causes damage to organs through prolonged or repeated exposure               | Rat | NOAEL 0.3<br>mg/kg/day      | 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 waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## 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

Reproductive toxicity

Respiratory or Skin Sensitization

### 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:** 1 **Instability:** 0 **Special Hazards:** None

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

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