



## Safety Data Sheet

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This safety data sheet (SDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a SDS is not required for this product by the Regulation of Labelling and Hazard Communication of Hazardous Chemicals promulgated by Ministry of Labor on June 27, 2014 by the order of Lao-Zhi-Tzu-No.10302007861 because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

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This Safety Data Sheet has been prepared in accordance with the 'Regulation of Labelling and Hazard Communication of Hazardous Chemicals' (by Ministry of Labor on June 27, 2014)

### SECTION 1: Identification

#### 1.1. Chemicals Name

No. 9882, 9885, 9890 Thermally Conductive Adhesive Transfer Tapes

#### Product Identification Numbers

NO. 9882	NO. 9885	NO. 9890	44-0042-7197-7	44-0042-7224-9
44-0042-7225-6	44-0042-7226-4	70-0000-7650-8	70-0000-7651-6	70-0000-7652-4
70-0062-7591-4	70-0160-5026-5	70-0160-5027-3	70-0160-5028-1	DT-0001-1681-4

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

##### Recommended use

Bonding

#### 1.3. Details of the supplier of the safety data sheet

**Name:** 3M Taiwan LTD  
**ADDRESS:** 3F., No. 198, Jingmao 2nd Rd., Nangang Dist., Taipei City 11568, Taiwan (R.O.C.)  
**Telephone:** (02) 2785-9338  
**Website:** www.3m.com.tw

#### 1.4. Emergency telephone number

**Emergency Telephone:** 886-3-4783600, 8:00AM - 4:30PM

**Fax number:** (03) 475-0924, 475-0904

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

This product is exempt from GHS classification according to article 4 of Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials.

## 2.2. Label elements

### SIGNAL WORD

Not applicable.

### Symbols

Not applicable.

### Pictograms

Not applicable

## 2.3. Other hazards

None known

## SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Aluminum Oxide	1344-28-1	40 - 70
Acrylate Polymer	Trade Secret	15 - 40

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

No need for first aid is anticipated.

#### Skin Contact:

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

#### Eye Contact:

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

#### If Swallowed:

No need for first aid is anticipated.

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

See Section 11.1. Information on toxicological effects.

### 4.3. Advice to protect the rescuer and special warning to doctors

Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment.

### 4.4. 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 carbon dioxide or dry chemical extinguisher to extinguish.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

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

No special protective actions for fire-fighters are anticipated.

**5.4. Special equipment for the protection of fire-fighters**

No information is available.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Not applicable.

**6.2. Environmental precautions**

Not applicable.

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

Not applicable.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

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

Not applicable.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

**Biological limit values**

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**8.2. Exposure controls**

**8.2.1. Engineering controls**

Not applicable.

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

**Eye/face protection**

Eye protection not required.

**Skin/hand protection**

No protective gloves required.

### Respiratory protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

### 8.3. Hygiene Measures

See Section 7.1 Precautions for safe handling

## SECTION 9: Physical and chemical properties

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

Physical state	Solid
Specific Physical Form:	Roll of Tape
Appearance/Odor	white, translucent, slight acrylate odor
Odor threshold	<i>Not Applicable</i>
pH	<i>Not Applicable</i>
Melting point/Freezing point	<i>Not Applicable</i>
Boiling point/Initial boiling point/Boiling range	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Evaporation rate	<i>Not Applicable</i>
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapor Pressure	<i>Not Applicable</i>
Vapor Density	<i>Not Applicable</i>
Density	<i>Not Applicable</i>
Relative Density	<i>Not Applicable</i>
Water solubility	Nil
Solubility- non-water	<i>Not Applicable</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>Not Applicable</i>
Decomposition temperature	<i>Not Applicable</i>
Viscosity	<i>Not Applicable</i>
Volatile Organic Compounds	<i>Not Applicable</i>
Percent volatile	0 %
VOC Less H <sub>2</sub> O & Exempt Solvents	<i>Not Applicable</i>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

**10.6. Hazardous decomposition products**

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

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

**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:**

This product may have a characteristic odor; however, no adverse health effects are anticipated.

**Skin Contact:**

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

**Eye Contact:**

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

**Ingestion:**

No health effects are expected.

**Chronic toxicity or long term toxicity**

**Additional Information:**

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

**Toxicological Data**

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

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Aluminum Oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Acrylate Polymer	Dermal		LD50 estimated to be > 5,000 mg/kg

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Acrylate Polymer	Ingestion	LD50 estimated to be 2,000 - 5,000 mg/kg
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ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Aluminum Oxide	Rabbit	No significant irritation
Acrylate Polymer	Professional judgement	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Aluminum Oxide	Rabbit	No significant irritation

**Skin Sensitization**

Name	Species	Value
Acrylate Polymer	Professional judgement	Not classified

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

Name	Route	Value
Aluminum Oxide	In Vitro	Not mutagenic

**Carcinogenicity**

Name	Route	Species	Value
Aluminum Oxide	Inhalation	Rat	Not carcinogenic

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

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

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Aluminum Oxide	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminum Oxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure

**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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

### 12.1. Toxicity

**Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Aluminum Oxide	1344-28-1	Fish	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
Aluminum Oxide	1344-28-1	Green Algae	Experimental	72 hours	Effect Concentration 50%	>100 mg/l
Aluminum Oxide	1344-28-1	Water flea	Experimental	48 hours	Lethal Concentration 50%	>100 mg/l
Aluminum Oxide	1344-28-1	Green Algae	Experimental	72 hours	No obs Effect Conc	>100 mg/l
Acrylate Polymer	Trade Secret		Data not available or insufficient for classification			

### 12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide	1344-28-1	Data not availbl- insufficient			N/A	
Acrylate Polymer	Trade Secret	Data not availbl- insufficient			N/A	

### 12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide	1344-28-1	Data not available or	N/A	N/A	N/A	N/A

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		insufficient for classification				
Acrylate Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

**SECTION 14: Transport Information****14.1. International Regulations**

Not hazardous for transportation.

UN No.: Not applicable

UN Proper shipping name: Not applicable

Transportation Class (IMO): Not applicable

Transportation Class (IATA): Not applicable

Packing Group: Not applicable

Marine pollutant: Not applicable

Specific transport measures and precautionary conditions: Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Applicable regulations:**

Taiwan. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste (EPA Order No. 0950098458C, Table 1 Process Hazardous Industrial Waste, December 14, 2006)

Occupational Safety and Health Act

**15.2. Global Inventory Status:**

Australian Inventory of Chemical Substances: Exempt from Inventory Listing

Canadian Domestic Substances List: Exempt from Inventory Listing

Canadian Non-Domestic Substances List: Exempt from Inventory Listing

EU Directive 2002/95/EC Restriction of Hazardous Substances (RoHS): Meets

European Inventory of Existing Commercial Chemical Substances: Exempt from Inventory Listing

Inventory of Existing Chemical Substances in China (IECSC): Exempt from Inventory Listing

Japan Existing & New Chemical Substances (ENCS): Exempt from Inventory Listing  
Japanese Industrial Safety and Health Inventory (MHLW): Exempt from Inventory Listing  
Korean Existing Chemicals Inventory: Exempt from Inventory Listing  
Philippine Inventory of Chemicals and Chemical Substances: Exempt from Inventory Listing  
Toxic Substances Control Act: Exempt from Inventory Listing

## SECTION 16: Other information

### 16.1. Literature references

#### Organization that prepared the SDS

**Name:** 3M Taiwan LTD  
**Address:** 3F., No. 198, Jingmao 2nd Rd., Nangang Dist., Taipei City  
11568, Taiwan (R.O.C.)  
**Telephone Number:** 886 3 478 3600 #388

#### Person who prepared the SDS

**Title:** Senior Product Responsibility Liaison  
**Name:** Sunny Chang

#### Date that the SDS was prepared:

2019/04/22

#### Revision information:

Section 01: Address information was modified.  
Section 01: Company Telephone information was modified.

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3M Taiwan SDSs are available at [www.3m.com.tw](http://www.3m.com.tw)