



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 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.

Document Group:	05-3658-1	Version Number:	2.00
Issue Date:	2024/02/05	Supersedes Date:	2021/04/11

This Safety Data Sheet has been prepared in accordance with the 'Regulation of Labelling and Hazard Communication of Hazardous Chemicals'

SECTION 1: Identification

1.1. Chemicals Name

3M™ Petrifilm™ Aerobic Count Plates

Product Identification Numbers

70-2005-7212-4	70-2005-7215-7	70-2007-7071-0	AH-0105-8644-6	AH-0105-8646-1
FH-5000-6006-3	H0-0015-2283-0	H0-0015-4404-0	H0-0015-4405-7	

1.2. Recommended use and restrictions on use

Recommended use

Used for growing microorganisms.

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 Regulations for the Labeling and Hazard Communication of Hazardous Chemicals.

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
Silicone coated paper	Unknown	50 - 70
Guar gum	9000-30-0	15 - 20
Polypropylene film	Unknown	10 - 20
Acrylate Adhesive - top film	Trade Secret	2 - 8
Hinge tape	Unknown	1 - 5
Sodium pyruvate	113-24-6	< 2

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

No need for first aid is anticipated.

Skin Contact:

No need for first aid is anticipated.

Eye Contact:

No need for first aid is anticipated.

If Swallowed:

No need for first aid is anticipated.

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

No critical symptoms or effects. 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 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.

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.

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 chemical protective gloves are required.

Respiratory protection

Respiratory protection is not required.

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:	Film
Color	White, Yellow
Odor	Musty
Odor threshold	<i>Not Applicable</i>
pH	6 - 8
Melting point/Freezing point	<i>No Data Available</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 and/or Relative Vapor Density	<i>Not Applicable</i>
Density	<i>Not Applicable</i>
Relative Density	<i>Not Applicable</i>
Water solubility	<i>No Data Available</i>
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/Kinematic Viscosity	<i>Not Applicable</i>
Volatile Organic Compounds	0
Percent volatile	0
VOC Less H ₂ O & Exempt Solvents	0
Molecular weight	<i>No Data Available</i>

Nanoparticles

This material contains nanoparticles.

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>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified

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:

No health effects are expected.

Skin Contact:

No health effects are expected.

Eye Contact:

No health effects are expected.

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
Acrylate Adhesive - top film	Dermal		LD50 estimated to be > 5,000 mg/kg
Acrylate Adhesive - top film	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Sodium pyruvate	In vitro data	No significant irritation
Acrylate Adhesive - top film	Professional judgement	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Sodium pyruvate	In vitro data	Severe irritant

Sensitization:**Skin Sensitization**

Name	Species	Value
Sodium pyruvate	similar compounds	Sensitizing
Acrylate Adhesive - top film	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
Sodium pyruvate	In Vitro	Not 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**

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**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
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Sodium pyruvate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
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Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Sodium pyruvate	Ingestion	heart endocrine system hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 0.034 mg/l	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

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
Guar gum	9000-30-0	Rainbow Trout	Experimental	96	LC50	218 mg/l
Guar gum	9000-30-0	Water flea	Experimental	48 hours	LC50	42 mg/l
Acrylate Adhesive - top film	Trade Secret		Data not available or insufficient for classification			N/A
Sodium pyruvate	113-24-6		Data not available or insufficient for classification			N/A

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Guar gum	9000-30-0	Data not			N/A	

		availbl-insufficient				
Acrylate Adhesive - top film	Trade Secret	Data not availbl-insufficient			N/A	
Sodium pyruvate	113-24-6	Estimated Biodegradation	28 days	Biological Oxygen Demand	78 % BOD/ThBOD	OECD 301F - Manometric Respiro

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Guar gum	9000-30-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acrylate Adhesive - top film	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sodium pyruvate	113-24-6	Estimated Bioconcentration		Bioaccumulation Factor	2.3	Est: Bioconcentration factor

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. 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:**

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Occupational Safety and Health Act

Waste Disposal Act

Regulation of Labelling and Hazard Communication of Hazardous Chemicals

15.2. Global Inventory Status:

Canadian Domestic Substances List: Inventory list not applicable

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:

2024/02/05

Revision information:

Section 02: TW GHS Classification information was modified.
Section 03: Material is a mixture standard phrase information was added.
Section 04: Information on toxicological effects information was deleted.
Section 09: Color information was added.
Section 09: Nanoparticle information was added.
Section 09: Odor information was added.
Section 09: Odor, color, grade information information was deleted.
Section 09: Percent Volatile information was added.
Section 09: Property description for optional properties information was added.
Section 09: Property description for optional properties information was deleted.
Section 09: Vapor Density Value information was added.
Section 09: Vapor density value information was deleted.
Section 09: Viscosity information information was deleted.
Section 09: Viscosity information was added.
Section 09: VOC Less H2O & Exempt Solvents information was added.
Section 09: Volatile Organic Compounds information was added.
Section 11: Germ Cell Mutagenicity Table information was added.
Section 11: Germ Cell Mutagenicity text information was deleted.
Section 11: Serious Eye Damage/Irritation Table information was added.
Section 11: Serious Eye Damage/Irritation text information was deleted.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Specific Target Organ Toxicity - repeated exposure text information was deleted.
Section 11: Specific Target Organ Toxicity - single exposure text information was deleted.

Section 11: Target Organs - Repeated Table information was added.

Section 11: Target Organs - Single Table information was added.

Section 12: Component ecotoxicity information information was modified.

Section 15: Methods and Facilities Standards information was modified.

Section 16: UK disclaimer information was deleted.

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