Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

SECTION 1: Identification

1.1. Product identifier
3M™ Petrifilm™ Yeast and Mold Count Plates

Product Identification Numbers
70-2005-6124-2 70-2005-9015-9

1.2. Recommended use and restrictions on use

Recommended use
Used for growing microorganisms.

For Industrial or Professional use only.

1.3. Supplier's details
Address: 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113
Telephone: 136 136
E Mail: productinfo.au@mmm.com
Website: www.3m.com.au

1.4. Emergency telephone number
EMERGENCY: 1800 097 146 (Australia only)

SECTION 2: Hazard identification

This product is NOT classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

This product is an article and is not regulated by the Model Work Health and Safety Regulations (2011) because, it is not classified as hazardous. 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.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture
Not applicable.

2.2. Label elements

Signal word
Not applicable.

Symbols
Not applicable.

Pictograms
Not applicable

2.3. Other assigned/identified product hazards
None known.

2.4. Other hazards which do not result in classification
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Silicone coated paper	None	40 - 60
Polypropylene film	None	5 - 20
Polyolefin film	None	< 15
Locust bean gum	9000-40-2	5 - 10
Xanthan gum	11138-66-2	5 - 10
5-Bromo-4-Chloro-3-Indoxyl phosphate, p-tolidine salt	6578-06-9	< 5
Hinge tape	None	1 - 5
Ethyl Acetate	141-78-6	< 3
Adhesive	Trade Secret	< 2
Chloramphenicol	56-75-7	< 0.5
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	< 0.1

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. 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.

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
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	CAS Nbr	Agency	Limit type	Additional comments
Ethyl Acetate	141-78-6	ACGIH	TWA:400 ppm	
Ethyl Acetate	141-78-6	Australia OELs	TWA(8 hours):720 mg/m3(200 ppm);STEL(15 minutes):1440 mg/m3(400 ppm)	
Chloramphenicol	56-75-7	AIHA	TWA(as chloramphenicol):0.5 mg/m3	
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	ACGIH	TWA(inhalable fraction):1 mg/m3	A4: Not class. as human carcin
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Australia OELs	TWA(8 hours):10 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association
Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling
Sen: Sensitiser
Sk: Absorption through the skin may be a significant source of exposure.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Colour	Off-White
Odour	Slight Acrylate
Odour threshold	*Not applicable.*
pH	6 - 8
Melting point/Freezing point	*No data available.*
Boiling point/Initial boiling point/Boiling range	*Not applicable.*
Flash point	*Not applicable.*
Evaporation rate	*Not applicable.*
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*Not applicable.*
Vapor Density and/or Relative Vapor Density	*Not applicable.*
Density	*Not applicable.*
Relative density	*Not applicable.*
Water solubility	Nil
Solubility- non-water	*Not applicable.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*Not applicable.*
Viscosity/Kinematic Viscosity	*Not applicable.*
Volatile organic compounds (VOC)	*No data available.*
Percent volatile	*No data available.*
VOC less H2O & exempt solvents	*No data available.*

Molecular weight	*No data available.*

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. Conditions to avoid
None known.

10.4. Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	Condition
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 labelling, 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.

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
Xanthan gum	Dermal		LD50 estimated to be > 5,000 mg/kg
Xanthan gum	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.25 mg/l
Xanthan gum	Ingestion	Rat	LD50 > 45,000 mg/kg
Ethyl Acetate	Dermal	Rabbit	LD50 > 18,000 mg/kg
Ethyl Acetate	Inhalation-Vapour (4 hours)	Rat	LC50 70.5 mg/l
Ethyl Acetate	Ingestion	Rat	LD50 5,620 mg/kg
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Dermal	Rabbit	LD50 > 5,010 mg/kg
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Ingestion	Rat	LD50 2,315 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Ethyl Acetate	Rabbit	Minimal irritation
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Ethyl Acetate	Rabbit	Mild irritant
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Rabbit	Moderate irritant

Skin Sensitisation

Name	Species	Value
Ethyl Acetate	Guinea pig	Not classified
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	Guinea pig	Sensitising

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

Germ Cell Mutagenicity

Name	Route	Value
Ethyl Acetate	In Vitro	Not mutagenic
Ethyl Acetate	In vivo	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
Ethyl Acetate	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Ethyl Acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Ethyl Acetate	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethyl Acetate	Inhalation	endocrine system | liver | nervous system	Not classified	Rat	NOAEL 0.043 mg/l	90 days
Ethyl Acetate	Inhalation	hematopoietic system	Not classified	Rabbit	LOAEL 16 mg/l	40 days
Ethyl Acetate	Ingestion	hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 3,600 mg/kg/day	90 days

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

Exposure Levels
Refer Section **8.1 Control Parameters** of this Safety Data Sheet.

Interactive Effects
Not determined.

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 labelling, 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 Number	Organism	Type	Exposure	Test endpoint	Test result
Locust bean gum	9000-40-2		Data not available or insufficient for classification			N/A
Xanthan gum	11138-66-2	Rainbow trout	Experimental	96 hours	LC50	420 mg/l
5-Bromo-4-Chloro-3-Indoxyl phosphate, p-tolidine salt	6578-06-9		Data not available or insufficient for classification			N/A
Ethyl Acetate	141-78-6	Bacteria	Experimental	18 hours	EC10	2,900 mg/l
Ethyl Acetate	141-78-6	Fish	Experimental	96 hours	LC50	212.5 mg/l
Ethyl Acetate	141-78-6	Invertebrate	Experimental	48 hours	EC50	165 mg/l
Ethyl Acetate	141-78-6	Green algae	Experimental	72 hours	NOEC	100 mg/l
Ethyl Acetate	141-78-6	Water flea	Experimental	21 days	NOEC	2.4 mg/l
Adhesive	Trade Secret		Data not available or insufficient for classification			N/A
Chloramphenicol	56-75-7		Data not available or insufficient for classification			N/A
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Fathead minnow	Experimental	96 hours	LC50	0.36 mg/l
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Water flea	Experimental	48 hours	EC50	0.16 mg/l
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Water flea	Experimental	21 days	NOEC	0.0071 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Locust bean gum	9000-40-2	Data not available-insufficient	N/A	N/A	N/A	N/A
Xanthan gum	11138-66-2	Data not available-insufficient	N/A	N/A	N/A	N/A
5-Bromo-4-Chloro-3-Indoxyl phosphate, p-tolidine salt	6578-06-9	Modeled Biodegradation	28 days	BOD	20 %BOD/ThOD	Catalogic™
Ethyl Acetate	141-78-6	Experimental Biodegradation	14 days	BOD	94 %BOD/ThOD	OECD 301C - MITI test (I)
Ethyl Acetate	141-78-6	Experimental		Photolytic half-	20.0 days (t	

		Photolysis		life (in air)	1/2)	
Adhesive	Trade Secret	Data not available-insufficient	N/A	N/A	N/A	N/A
Chloramphenicol	56-75-7	Data not available-insufficient	N/A	N/A	N/A	N/A
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental Biodegradation	14 days	BOD	1.9 %BOD/ThOD	OECD 301C - MITI test (I)
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental Biodegradation	35 days	CO2 evolution	1 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	similar to OECD 301B

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Locust bean gum	9000-40-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Xanthan gum	11138-66-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
5-Bromo-4-Chloro-3-Indoxyl phosphate, p-tolidine salt	6578-06-9	Modeled Bioconcentration		Bioaccumulation factor	9.5	Catalogic™
Ethyl Acetate	141-78-6	Experimental Bioconcentration		Log Kow	0.68	
Adhesive	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Chloramphenicol	56-75-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental BCF - Fish	42 days	Bioaccumulation factor	11	
4,4'-Thiobis(6-Tert-Butyl-M-Cresol)	96-69-5	Experimental Bioconcentration		Log Kow	5.24	OECD 117 log Kow HPLC method

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.

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

Australian Dangerous Goods Code (ADG) - Road/Rail Transport
UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.

Hazchem Code: Not applicable
IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport
UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG)- Marine Transport
UN No.: Not applicable.
Proper shipping name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Australian Inventory Status:
Not applicable, as this product/s aligns with the AICIS definition of an article.

Poison Schedule: This product is intended for Industrial or Professional Use only and therefore is not packaged and labelled in accordance with the requirements of the Standard for the Uniform Scheduling of Medicines and Poisons.

SECTION 16: Other information

Revision information:
Complete document review.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our

knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.
Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

3M Australia SDSs are available at www.3m.com.au