



Safety Data Sheet

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Document group:	11-6516-6	Version number:	17.00
Revision date:	08/07/2025	Supersedes date:	30/05/2023

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M™ Hot Melt Adhesive 3748 V0-PG, 3748 V0 Q, 3748 V0-TC

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Hot melt adhesive.

1.3. Details of the supplier of the safety data sheet

Address:	3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2
Telephone:	+353 1 280 3555
E Mail:	ner-productstewardship@mmm.com
Website:	www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Carcinogenicity, Category 2 - Carc. 2; H351

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

WARNING.

Symbols

GHS08 (Health Hazard) |

Pictograms**Ingredients:**

Ingredient	CAS Nbr	EC No.	% by Wt
antimony trioxide	1309-64-4	215-175-0	< 10

HAZARD STATEMENTS:

H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS**Prevention:**

P280F	Wear respiratory protection.
P280K	Wear protective gloves and respiratory protection.

SUPPLEMENTAL INFORMATION:**Supplemental Precautionary Statements:**

Avoid contact with hot extruded molten material or applicator tip. Avoid direct eye exposure to vapours. In case of eye/skin contact with molten material, immediately flush with cold water and cover with a clean dressing. Do not attempt to remove molten material. Have burn treated by a physician.

Contains 33% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

May cause thermal burns.

This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propene, polymer with ethene	(CAS-No.) 9010-79-1	15 - 40	Substance not classified as hazardous
Hydrocarbon resin	Trade Secret	10 - 30	Substance not classified as hazardous

N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	(CAS-No.) 32588-76-4 (EC-No.) 251-118-6	10 - 30	Substance not classified as hazardous
Polyethylene	(CAS-No.) 9002-88-4	1 - 20	Substance with a national occupational exposure limit
Styrene-Butadiene Polymer	Trade Secret	1 - 20	Substance not classified as hazardous
Polypropylene	Mixture	1 - 10	Substance not classified as hazardous
antimony trioxide	(CAS-No.) 1309-64-4 (EC-No.) 215-175-0	< 10	Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 2, H411
Paraffin Wax	(CAS-No.) 8002-74-2 (EC-No.) 232-315-6	1 - 10	Substance with a national occupational exposure limit
Ethylene-propylene-ethylidenenorbornene terpolymer	(CAS-No.) 25038-36-2	< 2	Substance not classified as hazardous

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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 flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

Eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

If swallowed

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

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. 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

Aldehydes.
Hydrocarbons.
Carbon monoxide
Carbon dioxide.
Hydrogen Bromide
Hydrogen cyanide.
Ketones.
Oxides of nitrogen.
Oxides of antimony.

Condition

During combustion.
During combustion.
During combustion.
During combustion.
During combustion.
During combustion.
During combustion.
During combustion.
During combustion.

5.3. Advice 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

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. Evacuate area. Ventilate the area with fresh air.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/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. Avoid release to the environment. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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
Paraffin Wax	8002-74-2	Ireland OELs	TWA(as fume)(8 hours):2 mg/m ³ ;STEL(as fume)(15 minutes):6 mg/m ³	
DUST, INERT OR NUISANCE	9002-88-4	Ireland OELs	TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):4 mg/m ³	

Ireland OELs : Ireland. OELs
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

Biological limit values

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

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

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/vapours/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.

Gloves made from the following material(s) are recommended:

Material	Thickness (mm)	Breakthrough Time
Nitrile rubber.	No data available	No data available

Applicable Norms/Standards

Use gloves tested to EN 374

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 vapours and particulates

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

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136: filter types A & P

Thermal hazards

Wear heat insulating gloves, indirect vented goggles, and a full face shield when handling hot material to prevent thermal burns.

Applicable Norms/Standards

Use gloves tested to EN 407

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Waxy Solid
Colour	Light Yellow
Odor	Mild Resinous
Odour threshold	<i>No data available.</i>
Melting point/freezing point	<i>Not applicable.</i>
Boiling point/boiling range	<i>Not applicable.</i>
Flammability	Not applicable.
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Flash point	280 °C [<i>Test Method:</i> Cleveland Open Cup]
Autoignition temperature	330 °C
Decomposition temperature	<i>No data available.</i>
pH	<i>substance/mixture is non-soluble (in water)</i>
Kinematic Viscosity	<i>Not applicable.</i>
Water solubility	Nil
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Density	1.09 g/cm ³
Relative density	1.09 [<i>Ref Std:</i> WATER=1]
Relative Vapour Density	Nil
Particle Characteristics	<i>Not applicable.</i>

9.2. Other information**9.2.2 Other safety characteristics**

EU Volatile Organic Compounds	<i>No data available.</i>
Evaporation rate	<i>Not applicable.</i>
Molecular weight	<i>No data available.</i>
Percent volatile	0 % weight
Solids content	100 %

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 polymerisation 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.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

Inhalation

May cause additional health effects (see below).

Skin contact

Thermal burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction. May cause additional health effects (see below).

Eye contact

Thermal burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

Ingestion

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

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Dermal effects: Signs/symptoms may include redness, itching, acne, or bumps on the skin.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

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
Propene, polymer with ethene	Dermal	Rabbit	LD50 > 2,000 mg/kg
Propene, polymer with ethene	Ingestion	Rat	LD50 > 5,000 mg/kg
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	Dermal	Rabbit	LD50 > 2,000 mg/kg
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 51 mg/l
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	Ingestion	Rat	LD50 > 7,500 mg/kg
Hydrocarbon resin	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Hydrocarbon resin	Ingestion	Professional judgement	LD50 7,000 mg/kg
Styrene-Butadiene Polymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Styrene-Butadiene Polymer	Ingestion		LD50 estimated to be > 5,000 mg/kg
Polyethylene	Dermal		LD50 estimated to be > 5,000 mg/kg
Polyethylene	Ingestion	Rat	LD50 > 2,000 mg/kg
antimony trioxide	Dermal	Rabbit	LD50 > 6,685 mg/kg
antimony trioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.76 mg/l
antimony trioxide	Ingestion	Rat	LD50 > 34,600 mg/kg
Paraffin Wax	Dermal	Rat	LD50 > 5,000 mg/kg
Paraffin Wax	Ingestion	Rat	LD50 > 5,000 mg/kg
Polypropylene	Dermal		LD50 estimated to be > 5,000 mg/kg
Polypropylene	Ingestion	Mouse	LD50 > 8,000 mg/kg
Ethylene-propylene-ethylidenenorbornene terpolymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Ethylene-propylene-ethylidenenorbornene terpolymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Propene, polymer with ethene	Rabbit	No significant irritation
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	Rabbit	No significant irritation
Hydrocarbon resin	Professional judgement	No significant irritation
Polyethylene	Professional judgement	No significant irritation
antimony trioxide	Human and animal	Minimal irritation
Paraffin Wax	Rabbit	No significant irritation
Polypropylene	Human and animal	No significant irritation
Ethylene-propylene-ethylidenenorbornene terpolymer	Professional judgement	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Propene, polymer with ethene	Rabbit	No significant irritation
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	Rabbit	No significant irritation
antimony trioxide	Rabbit	Mild irritant
Paraffin Wax	Rabbit	No significant irritation
Polypropylene	Professional judgement	No significant irritation
Ethylene-propylene-ethylidenenorbornene terpolymer	Professional judgement	No significant irritation

Skin Sensitisation

Name	Species	Value
antimony trioxide	Human	Not classified
Paraffin Wax	Guinea pig	Not classified
Polypropylene	Human and animal	Not classified

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	In Vitro	Not mutagenic
Hydrocarbon resin	In Vitro	Not mutagenic
antimony trioxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
antimony trioxide	In vivo	Some positive data exist, but the data are not sufficient for classification
Paraffin Wax	In Vitro	Not mutagenic
Polypropylene	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Polyethylene	Not specified.	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
antimony trioxide	Inhalation	Multiple animal species	Carcinogenic.
Paraffin Wax	Ingestion	Rat	Not carcinogenic
Polypropylene	Not specified.	Rat	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	Ingestion	Not classified for development	Multiple animal species	NOAEL 1,000 mg/kg/day	during organogenesis

antimony trioxide	Inhalation	Not classified for female reproduction	Rat	LOAEL 0.25 mg/l	premating & during gestation
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Target Organ(s)**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
antimony trioxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	Ingestion	heart endocrine system hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
antimony trioxide	Dermal	skin	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
antimony trioxide	Inhalation	pulmonary fibrosis	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.002 mg/l	1 years
antimony trioxide	Inhalation	liver	Not classified	Rat	NOAEL 0.043 mg/l	1 years
antimony trioxide	Inhalation	blood	Not classified	Rat	NOAEL 0.004 mg/l	not available
antimony trioxide	Inhalation	pneumoconiosis	Not classified	Human	LOAEL 0.01 mg/l	occupational exposure
antimony trioxide	Inhalation	heart	Not classified	Rat	NOAEL 0.02 mg/l	1 years
antimony trioxide	Ingestion	blood liver	Not classified	Rat	NOAEL 418 mg/kg/day	not available
antimony trioxide	Ingestion	heart	Not classified	Rat	NOAEL Not available	not available
Paraffin Wax	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 15 mg/kg/day	90 days
Paraffin Wax	Ingestion	hematopoietic system liver immune system skin endocrine system bone, teeth, nails, and/or hair muscles nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days

Aspiration Hazard

For the component/components, either no data is currently available or the data is 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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
Propene, polymer with ethene	9010-79-1	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Hydrocarbon resin	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	32588-76-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Polyethylene	9002-88-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Styrene-Butadiene Polymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
antimony trioxide	1309-64-4	Green algae	Endpoint not reached	72 hours	EC50	>100 mg/l
antimony trioxide	1309-64-4	N/A	Estimated	96 hours	EC50	2.12 mg/l
antimony trioxide	1309-64-4	Fathead minnow	Estimated	96 hours	LC50	17.2 mg/l
antimony trioxide	1309-64-4	Fish	Estimated	96 hours	LC50	8.3 mg/l
antimony trioxide	1309-64-4	Activated sludge	Experimental	4 hours	NOEC	6.1 mg/l
antimony trioxide	1309-64-4	Rainbow trout	Estimated	28 days	LC10	0.188 mg/l
antimony trioxide	1309-64-4	Water flea	Estimated	21 days	NOEC	2.08 mg/l
antimony trioxide	1309-64-4	Green algae	Experimental	72	NOEC	2.53 mg/l
Paraffin Wax	8002-74-2	Green algae	Analogous Compound	96 hours	EC50	>1,000 mg/l
Paraffin Wax	8002-74-2	Rainbow trout	Analogous Compound	96 hours	LC50	>1,000 mg/l
Paraffin Wax	8002-74-2	Water flea	Analogous Compound	48 hours	EC50	>10,000 mg/l
Polypropylene	Mixture	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Ethylene-propylene-ethylidenenorbornene terpolymer	25038-36-2	N/A	Data not available or insufficient for classification	N/A	N/A	N/A

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Propene, polymer with ethene	9010-79-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Hydrocarbon resin	Trade Secret	Data not availbl-	N/A	N/A	N/A	N/A

		insufficient				
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	32588-76-4	Experimental Biodegradation	14 days	BOD	0 %BOD/ThO D	OECD 301C - MITI test (I)
Polyethylene	9002-88-4	Data not available or insufficient	N/A	N/A	N/A	N/A
Styrene-Butadiene Polymer	Trade Secret	Data not available or insufficient	N/A	N/A	N/A	N/A
antimony trioxide	1309-64-4	Data not available or insufficient	N/A	N/A	N/A	N/A
Paraffin Wax	8002-74-2	Analogous Compound Biodegradation	28 days	BOD	40 %BOD/ThO D	OECD 301F - Manometric respirometry
Polypropylene	Mixture	Data not available or insufficient	N/A	N/A	N/A	N/A
Ethylene-propylene-ethylidenenorbornene terpolymer	25038-36-2	Data not available or insufficient	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Propene, polymer with ethene	9010-79-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrocarbon resin	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	32588-76-4	Experimental BCF - Fish	56 days	Bioaccumulation factor	<3.3	
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	32588-76-4	Modeled Bioconcentration		Log Kow	9.8	Episuite™
Polyethylene	9002-88-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Styrene-Butadiene Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
antimony trioxide	1309-64-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Paraffin Wax	8002-74-2	Modeled Bioconcentration		Log Kow	10.2	Episuite™
Polypropylene	Mixture	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ethylene-propylene-ethylidenenorbornene terpolymer	25038-36-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
N,N'-Ethylenebis(3,4,5,6-tetrabromophthalimide)	32588-76-4	Modeled Mobility in Soil	Koc	55,000 l/kg	Episuite™

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment 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. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances
20 01 27* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.

Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
antimony trioxide	1309-64-4	Carc. 2	Regulation (EC) No. 1272/2008, Table 3.1
antimony trioxide	1309-64-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Polyethylene	9002-88-4	Gr. 3: Not classifiable	International Agency for Research on Cancer
Polypropylene	Mixture	Gr. 3: Not classifiable	International Agency for Research on Cancer

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information**List of relevant H statements**

H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:

Section 1: Address information was modified.

Section 1: E-mail address information was modified.

Label: CLP Precautionary - Prevention information was modified.

Section 6: Accidental release personal information information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 9: Flammability (solid, gas) information information was deleted.

Section 09: Flammability information information was added.

Section 09: Particle Characteristics N/A information was added.

Section 11: Health Effects - Inhalation information information was modified.

Section 15: Seveso Substance Text information was deleted.

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 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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M Ireland MSDSs are available at www.3M.com