



Safety Data Sheet

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This product is defined as an article under REACH and does not require a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006. Since an SDS is not required, this document does not contain all of the information that is required for substance and mixture SDSs under REACH.

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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

Black EPDM Tubing (on plastic core) ==>(LH-A100-1762-5)

Product Identification Numbers

78-8092-0644-0	78-8096-5050-6	78-8120-0870-0	80-0002-3308-2	80-6112-1776-3
KE-2320-8242-7	TE-1000-5564-5			
7000058616	4100023317	4100023591	4100023595	7100094926
7000092232	7100264111			

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

Identified uses

Electrical

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
E Mail: tox.uk@mmm.com
Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

This material is exempt from hazard classification according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

Not applicable

2.3. Other hazards

None known.

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]
Black EPDM tube	Trade Secret	20 - 40	Substance not classified as hazardous
Distillates (petroleum), hydrotreated heavy paraffinic	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1	10 - 30	Nota L STOT SE 3, H336 EUH066
Residual oils (petroleum,) solvent-refined	(CAS-No.) 64742-01-4 (EC-No.) 265-101-6	15 - 25	Nota L
Soybean oil, epoxidised	(CAS-No.) 8013-07-8 (EC-No.) 232-391-0	<= 25	Substance not classified as hazardous
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	(CAS-No.) 2082-79-3 (EC-No.) 218-216-0	<= 25	Substance not classified as hazardous
Residual oils (petroleum), solvent-dewaxed	(CAS-No.) 64742-62-7 (EC-No.) 265-166-0	<= 25	Nota L
Silica gel, pptd., cryst.-free	(CAS-No.) 112926-00-8	15 - 25	Substance with a national occupational exposure limit
Silicon dioxide	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4	<= 20	Substance with a national occupational exposure limit
Distillates (petroleum), solvent-refined heavy paraffinic	(CAS-No.) 64741-88-4 (EC-No.) 265-090-8	<= 20	Nota L Asp. Tox. 1, H304 EUH066
POLYDIMETHYLSILOXANE COMPOUND		<= 5	Substance not classified as hazardous
CLAY	(CAS-No.) 1302-87-0	<= 5	Substance not classified as hazardous
Kaolin, calcined	(CAS-No.) 92704-41-1 (EC-No.) 296-473-8	1 - 5	Substance not classified as hazardous

ethylene dimethacrylate	(CAS-No.) 97-90-5 (EC-No.) 202-617-2	<= 2	Skin Sens. 1B, H317 STOT SE 3, H335 Nota D Aquatic Chronic 3, H412
NON-HAZARDOUS COMPOUND		<= 1	Substance not classified as hazardous
Paraffin waxes (petroleum), clay-treated	(CAS-No.) 64742-43-4 (EC-No.) 265-145-6	<= 1	Substance not classified as hazardous
Oxidised polyethylene	(CAS-No.) 68441-17-8	<= 1	Substance not classified as hazardous
Silicic acid, calcium salt	(CAS-No.) 1344-95-2 (EC-No.) 215-710-8	<= 1	Substance with a national occupational exposure limit
ZINC PYRETHON	(CAS-No.) 13463-41-7 (EC-No.) 236-671-3	< 0.5	Acute Tox. 2, H330(LC50 = 0.14 mg/l **ATE values per Annex VI**) Acute Tox. 3, H301(LD50 = 221 mg/kg **ATE values per Annex VI**) Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400,M=1000 Aquatic Chronic 1, H410,M=10

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

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
ethylene dimethacrylate	(CAS-No.) 97-90-5 (EC-No.) 202-617-2	(C >= 10%) STOT SE 3, H335

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

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. 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

<u>Substance</u>	<u>Condition</u>
Hydrocarbons.	During combustion.
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Oxides of nitrogen.	During combustion.
Oxides of sulphur.	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

Not applicable.

6.2. Environmental precautions

Not applicable.

6.3. Methods and material for containment and cleaning up

Not applicable. Seal the container.

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

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.

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
Silicon dioxide	112926-00-8	UK HSC	TWA(as respirable dust):2.4 mg/m ³ ;TWA(as inhalable dust):6 mg/m ³	
Silicic acid, calcium salt	1344-95-2	UK HSC	TWA(as respirable dust):4 mg/m ³ ;TWA(as inhalable dust):10 mg/m ³	
Silicon dioxide	7631-86-9	UK HSC	TWA(as respirable dust):2.4 mg/m ³ ;TWA(as inhalable dust):6 mg/m ³	

UK HSC : UK Health and Safety Commission
 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 UK HSC

8.2. Exposure controls

8.2.1. Engineering controls

No engineering controls required.

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	Black
Odor	Rubber
Odour threshold	<i>Not applicable.</i>
Melting point/freezing point	<i>No data available.</i>
Boiling point/boiling range	<i>Not applicable.</i>
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>

Flash point	No flash point
Autoignition temperature	<i>Not applicable.</i>
Decomposition temperature	<i>No data available.</i>
pH	
Kinematic Viscosity	<i>Not applicable.</i>
Water solubility	<i>Not applicable.</i>
Solubility- non-water	<i>Not applicable.</i>
Partition coefficient: n-octanol/water	<i>Not applicable.</i>
Density	<i>No data available.</i>
Relative density	<i>No data available.</i>
Relative Vapor Density	<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>Not applicable.</i>
Percent volatile	<i>No data available.</i>

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 polymerisation will not occur.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Not determined

10.6 Hazardous decomposition products

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

Refer to section 5.2 for hazardous decomposition products during combustion.

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 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

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 3M 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
Black EPDM tube	Dermal		LD50 estimated to be > 5,000 mg/kg
Black EPDM tube	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	Dermal	Rabbit	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	Ingestion	Rat	LD50 > 5,000 mg/kg
Soybean oil, epoxidised	Dermal	Rabbit	LD50 > 20,000 mg/kg
Soybean oil, epoxidised	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Dermal	Rat	LD50 > 2,000 mg/kg
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.8 mg/l
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Ingestion	Rat	LD50 > 5,000 mg/kg
Silica gel, pptd., cryst.-free	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silica gel, pptd., cryst.-free	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silica gel, pptd., cryst.-free	Ingestion	Rat	LD50 > 5,110 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	Dermal	Rabbit	LD50 > 2,000 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	Ingestion	Rat	LD50 > 5,000
Silicon dioxide	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silicon dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silicon dioxide	Ingestion	Rat	LD50 > 5,110 mg/kg
Kaolin, calcined	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Kaolin, calcined	Ingestion	Rat	LD50 > 2,000 mg/kg
ethylene dimethacrylate	Dermal	Professional	LD50 estimated to be 2,000 - 5,000 mg/kg

		judgeme nt	
ethylene dimethacrylate	Ingestion	Rat	LD50 3,300 mg/kg
Silicic acid, calcium salt	Dermal		LD50 estimated to be > 5,000 mg/kg
Silicic acid, calcium salt	Ingestion	Rat	LD50 > 5,000 mg/kg
Oxidised polyethylene	Ingestion	Rat	LD50 > 2,500 mg/kg
ZINC PYRETHION	Dermal	Rabbit	LD50 > 2,000 mg/kg
ZINC PYRETHION	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.14 mg/l
ZINC PYRETHION	Ingestion	Rat	LD50 221 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Black EPDM tube	Profession al judgemen t	No significant irritation
Distillates (petroleum), hydrotreated heavy paraffinic	Rabbit	Minimal irritation
Soybean oil, epoxidised	Rabbit	No significant irritation
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Rabbit	Minimal irritation
Silica gel, pptd., cryst.-free	Rabbit	No significant irritation
Distillates (petroleum), solvent-refined heavy paraffinic	Rabbit	Minimal irritation
Silicon dioxide	Rabbit	No significant irritation
ethylene dimethacrylate	Profession al judgemen t	Mild irritant
Silicic acid, calcium salt	Rabbit	No significant irritation
Oxidised polyethylene	Profession al judgemen t	No significant irritation
ZINC PYRETHION	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Black EPDM tube	Profession al judgemen t	No significant irritation
Distillates (petroleum), hydrotreated heavy paraffinic	Rabbit	Mild irritant
Soybean oil, epoxidised	Rabbit	No significant irritation
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Rabbit	Mild irritant
Silica gel, pptd., cryst.-free	Rabbit	No significant irritation
Distillates (petroleum), solvent-refined heavy paraffinic	Rabbit	Mild irritant
Silicon dioxide	Rabbit	No significant irritation
ethylene dimethacrylate	Not available	Moderate irritant
Silicic acid, calcium salt	Rabbit	Mild irritant
Oxidised polyethylene	Profession al judgemen t	No significant irritation
ZINC PYRETHION	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Distillates (petroleum), hydrotreated heavy paraffinic	Guinea	Not classified

	pig	
Soybean oil, epoxidised	Guinea pig	Not classified
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Human and animal	Not classified
Silica gel, pptd., cryst.-free	Human and animal	Not classified
Distillates (petroleum), solvent-refined heavy paraffinic	Guinea pig	Not classified
Silicon dioxide	Human and animal	Not classified
ethylene dimethacrylate	Guinea pig	Sensitising
ZINC PYRETHION	Guinea pig	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
Distillates (petroleum), hydrotreated heavy paraffinic	In Vitro	Some positive data exist, but the data are not sufficient for classification
Soybean oil, epoxidised	In Vitro	Not mutagenic
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	In Vitro	Not mutagenic
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	In vivo	Not mutagenic
Silica gel, pptd., cryst.-free	In Vitro	Not mutagenic
Distillates (petroleum), solvent-refined heavy paraffinic	In Vitro	Some positive data exist, but the data are not sufficient for classification
Silicon dioxide	In Vitro	Not mutagenic
ethylene dimethacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
ZINC PYRETHION	In vivo	Not mutagenic
ZINC PYRETHION	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Distillates (petroleum), hydrotreated heavy paraffinic	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Soybean oil, epoxidised	Ingestion	Rat	Not carcinogenic
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Ingestion	Mouse	Not carcinogenic
Silica gel, pptd., cryst.-free	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), solvent-refined heavy paraffinic	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Silicon dioxide	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
ZINC PYRETHION	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Soybean oil, epoxidised	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
Soybean oil, epoxidised	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000	1 generation

Soybean oil, epoxidised	Ingestion	Not classified for development	Rat	mg/kg/day NOAEL 1,000 mg/kg/day	1 generation
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Ingestion	Not classified for female reproduction	Rat	NOAEL 421 mg/kg/day	2 generation
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Ingestion	Not classified for male reproduction	Rat	NOAEL 375 mg/kg/day	2 generation
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Ingestion	Not classified for development	Rat	NOAEL 421 mg/kg/day	2 generation
Silica gel, pptd., cryst.-free	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silica gel, pptd., cryst.-free	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silica gel, pptd., cryst.-free	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Silicon dioxide	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
ZINC PYRETHION	Ingestion	Not classified for female reproduction	Rat	NOAEL 2.5 mg/kg/day	2 generation
ZINC PYRETHION	Ingestion	Not classified for male reproduction	Rat	NOAEL 2.5 mg/kg/day	2 generation
ZINC PYRETHION	Dermal	Not classified for development	Rat	NOAEL 30 mg/kg/day	during gestation
ZINC PYRETHION	Ingestion	Toxic to development	Rabbit	NOAEL 0.5 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Distillates (petroleum), hydrotreated heavy paraffinic	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Distillates (petroleum), hydrotreated heavy paraffinic	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Distillates (petroleum), solvent-refined heavy paraffinic	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Distillates (petroleum), solvent-refined heavy paraffinic	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
ethylene dimethacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
ZINC PYRETHION	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Distillates (petroleum), hydrotreated heavy paraffinic	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.21 mg/l	28 days
Soybean oil, epoxidised	Ingestion	liver kidney and/or	Not classified	Rat	NOAEL	2 years

		bladder			1,250 mg/kg/day	
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Ingestion	liver kidney and/or bladder heart endocrine system respiratory system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Silica gel, pptd., cryst.-free	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Distillates (petroleum), solvent-refined heavy paraffinic	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.21 mg/l	28 days
Silicon dioxide	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
ZINC PYRETHION	Dermal	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 30 mg/kg/day	21 days
ZINC PYRETHION	Dermal	heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
ZINC PYRETHION	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.0015 mg/l	28 days
ZINC PYRETHION	Inhalation	respiratory system heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles eyes kidney and/or bladder vascular system	Not classified	Rat	NOAEL 0.0025 mg/l	90 days
ZINC PYRETHION	Ingestion	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 2.5 mg/kg/day	90 days
ZINC PYRETHION	Ingestion	hematopoietic system	Causes damage to organs through prolonged or repeated exposure	Monkey	NOAEL 11 mg/kg/day	28 days
ZINC PYRETHION	Ingestion	gastrointestinal tract heart skin endocrine system bone, teeth, nails, and/or hair liver immune system muscles eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 2.5 mg/kg/day	90 days

Aspiration Hazard

Name	Value
Distillates (petroleum), solvent-refined heavy paraffinic	Aspiration hazard

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

Not applicable.

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
Black EPDM tube	Trade Secret		Data not available or insufficient for classification			N/A
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Green algae	Estimated	72 hours	EL50	>100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Water flea	Estimated	48 hours	EL50	>100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Fathead minnow	Experimental	96 hours	LL50	>100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Green algae	Estimated	72 hours	NOEL	100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Water flea	Estimated	21 days	NOEL	100 mg/l
Soybean oil, epoxidised	8013-07-8	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
Soybean oil, epoxidised	8013-07-8	Water flea	Experimental	24 hours	EC50	>100 mg/l
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	2082-79-3	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	2082-79-3	Bluegill	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	2082-79-3	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	2082-79-3	Water flea	Experimental	24 hours	No tox obs at lmt of water sol	>100 mg/l
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	2082-79-3	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	2082-79-3	Water flea	Experimental	21 days	No tox obs at lmt of water sol	>100 mg/l

Black EPDM Tubing (on plastic core) ==>(LH-A100-1762-5)

Silica gel, pptd., cryst.-free	112926-00-8	Green algae	Estimated	72 hours	EC50	440 mg/l
Silica gel, pptd., cryst.-free	112926-00-8	Water flea	Estimated	48 hours	EC50	7,600 mg/l
Silica gel, pptd., cryst.-free	112926-00-8	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l
Silica gel, pptd., cryst.-free	112926-00-8	Green algae	Estimated	72 hours	NOEC	60 mg/l
Residual oils (petroleum), solvent-dewaxed	64742-62-7	Fathead minnow	Estimated	96 hours	No tox obs at lmt of water sol	>100 mg/l
Residual oils (petroleum), solvent-dewaxed	64742-62-7	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
Residual oils (petroleum), solvent-dewaxed	64742-62-7	Water flea	Estimated	48 hours	No tox obs at lmt of water sol	>100 mg/l
Residual oils (petroleum), solvent-dewaxed	64742-62-7	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
Residual oils (petroleum), solvent-dewaxed	64742-62-7	Water flea	Estimated	21 days	No tox obs at lmt of water sol	>100 mg/l
Residual oils (petroleum,) solvent-refined	64742-01-4	Fathead minnow	Estimated	96 hours	LL50	>100 mg/l
Residual oils (petroleum,) solvent-refined	64742-01-4	Water flea	Estimated	48 hours	EL50	>100 mg/l
Residual oils (petroleum,) solvent-refined	64742-01-4	Green algae	Estimated	72 hours	NOEL	100 mg/l
Residual oils (petroleum,) solvent-refined	64742-01-4	Water flea	Estimated	21 days	NOEL	10 mg/l
Silicon dioxide	7631-86-9		Data not available or insufficient for classification			N/A
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Fathead minnow	Estimated	96 hours	LL50	>100 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Water flea	Estimated	48 hours	EC50	>100 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Green algae	Experimental	96 hours	EL50	>100 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Green algae	Experimental	96 hours	NOEL	100 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Water flea	Experimental	21 days	NOEL	100 mg/l
CLAY	1302-87-0		Data not available or insufficient for classification			N/A
Kaolin, calcined	92704-41-1	Bacteria	Estimated	16 hours	EC10	1,400 mg/l
Kaolin, calcined	92704-41-1	Green algae	Estimated	72 hours	EC50	2,500 mg/l
Kaolin, calcined	92704-41-1	Water flea	Estimated	48 hours	EC50	>100 mg/l
Kaolin, calcined	92704-41-1	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
Kaolin, calcined	92704-41-1	Green algae	Estimated	72 hours	EC10	41 mg/l
Kaolin, calcined	92704-41-1	Rainbow trout	Estimated	30 days	NOEC	100 mg/l

Black EPDM Tubing (on plastic core) ==>(LH-A100-1762-5)

ethylene dimethacrylate	97-90-5	Activated sludge	Experimental	3 hours	EC50	570 mg/l
ethylene dimethacrylate	97-90-5	Green algae	Experimental	72 hours	EC50	17.3 mg/l
ethylene dimethacrylate	97-90-5	Water flea	Experimental	48 hours	EC50	44.9 mg/l
ethylene dimethacrylate	97-90-5	Zebra Fish	Experimental	96 hours	LC50	15.95 mg/l
ethylene dimethacrylate	97-90-5	Water flea	Experimental	21 days	NOEC	5.05 mg/l
Silicic acid, calcium salt	1344-95-2	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
Silicic acid, calcium salt	1344-95-2	Water flea	Experimental	48 hours	EL50	>10,000 mg/l
Silicic acid, calcium salt	1344-95-2	Green algae	Experimental	72 hours	EC10	41 mg/l
Paraffin waxes (petroleum), clay-treated	64742-43-4	Fathead minnow	Estimated	96 hours	LL50	>100 mg/l
Paraffin waxes (petroleum), clay-treated	64742-43-4	Green algae	Estimated	72 hours	EL50	>100 mg/l
Paraffin waxes (petroleum), clay-treated	64742-43-4	Water flea	Estimated	48 hours	EL50	>100 mg/l
Paraffin waxes (petroleum), clay-treated	64742-43-4	Green algae	Estimated	72 hours	NOEL	100 mg/l
Oxidised polyethylene	68441-17-8		Data not available or insufficient for classification			N/A
ZINC PYRETHION	13463-41-7	Activated sludge	Experimental	3 hours	EC50	2.4 mg/l
ZINC PYRETHION	13463-41-7	Diatom	Experimental	96 hours	EC50	0.0013 mg/l
ZINC PYRETHION	13463-41-7	Fathead minnow	Experimental	96 hours	LC50	0.0026 mg/l
ZINC PYRETHION	13463-41-7	Water flea	Experimental	48 hours	EC50	0.0082 mg/l
ZINC PYRETHION	13463-41-7	Diatom	Experimental	96 hours	NOEC	0.00046 mg/l
ZINC PYRETHION	13463-41-7	Fathead minnow	Experimental	28 days	NOEC	0.00122 mg/l
ZINC PYRETHION	13463-41-7	Mysid Shrimp	Experimental	28 days	NOEC	0.00228 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Black EPDM tube	Trade Secret	Data not available - insufficient	N/A	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Experimental Biodegradation	28 days	BOD	31 % weight	OECD 301F - Manometric respirometry
Soybean oil, epoxidised	8013-07-8	Experimental Biodegradation	28 days	BOD	78 % weight	OECD 301D - Closed bottle test
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	2082-79-3	Experimental Biodegradation	28 days	BOD	21 % BOD/ThOD	OECD 301C - MITI test (I)
Silica gel, pptd., cryst.-free	112926-00-8	Data not available - insufficient	N/A	N/A	N/A	N/A
Residual oils (petroleum), solvent-dewaxed	64742-62-7	Estimated Biodegradation	28 days	CO2 evolution	2-4 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Residual oils (petroleum,) solvent-refined	64742-01-4	Estimated Biodegradation	28 days	CO2 evolution	2-8 % weight	OECD 301B - Modified sturm or CO2

Black EPDM Tubing (on plastic core) ==>(LH-A100-1762-5)

Silicon dioxide	7631-86-9	Data not available or insufficient	N/A	N/A	N/A	N/A
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Experimental Biodegradation	28 days	CO2 evolution	22 % weight	OECD 301B - Modified sturm or CO2
CLAY	1302-87-0	Data not available or insufficient	N/A	N/A	N/A	N/A
Kaolin, calcined	92704-41-1	Data not available or insufficient	N/A	N/A	N/A	N/A
ethylene dimethacrylate	97-90-5	Experimental Biodegradation	28 days	BOD	71.2 % BOD/ThOD	Non-standard method
Silicic acid, calcium salt	1344-95-2	Data not available or insufficient	N/A	N/A	N/A	N/A
Paraffin waxes (petroleum), clay-treated	64742-43-4	Estimated Biodegradation	28 days	BOD	40 % BOD/ThOD	OECD 301F - Manometric respirometry
Oxidised polyethylene	68441-17-8	Data not available or insufficient	N/A	N/A	N/A	N/A
ZINC PYRETHION	13463-41-7	Experimental Photolysis		Photolytic half-life(in water)	<7 minutes (t 1/2)	Non-standard method
ZINC PYRETHION	13463-41-7	Experimental Biodegradation	28 days	CO2 evolution	39 % weight	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Black EPDM tube	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Estimated Bioconcentration		Bioaccumulation factor	7.5	Estimated: Bioconcentration factor
Soybean oil, epoxidised	8013-07-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrocinnamic acid, 3,5-di-tert-butyl-4-hydroxy-, octadecyl ester	2082-79-3	Experimental BCF - Carp	42 days	Bioaccumulation factor	<12	OECD 305E - Bioaccumulation flow-through fish test
Silica gel, pptd., cryst.-free	112926-00-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Residual oils (petroleum), solvent-dewaxed	64742-62-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Residual oils (petroleum), solvent-refined	64742-01-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicon dioxide	7631-86-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Estimated Bioconcentration		Bioaccumulation factor	7.5	Estimated: Bioconcentration factor
CLAY	1302-87-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Kaolin, calcined	92704-41-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
ethylene dimethacrylate	97-90-5	Experimental Bioconcentration		Log Kow	1.22	Non-standard method
Silicic acid, calcium salt	1344-95-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Paraffin waxes (petroleum), clay-treated	64742-43-4	Estimated Bioconcentration		Log Kow	>10.2	Estimated: Octanol-water partition coefficient
Oxidised polyethylene	68441-17-8	Data not available or insufficient for	N/A	N/A	N/A	N/A

		classification				
ZINC PYRETHION	13463-41-7	Experimental BCF - Carp	56 days	BOD	<50	Non-standard method

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
ZINC PYRETHION	13463-41-7	Estimated Mobility in Soil	Koc	360 l/kg	Episuite™

12.5. Results of the PBT and vPvB assessment

Not applicable

12.6. Endocrine disrupting properties

Not applicable

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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

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)

20 01 39 Plastics

SECTION 14: Transportation information

Not hazardous for transportation.

ADR/IATA/IMDG: Not hazardous for transport.

	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

Ingredient

Silicon dioxide

CAS Nbr

7631-86-9

Classification

Gr. 3: Not classifiable

Regulation

International Agency for Research on Cancer

Global inventory status

Contact 3M for more information.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonnes) for the application of
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		Lower-tier requirements	Upper-tier requirements
ZINC PYRETHION	13463-41-7	50	200

15.2. Chemical Safety Assessment

Not applicable.

SECTION 16: Other information

List of relevant H statements

EUH066	Repeated exposure may cause skin dryness or cracking.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:

- EU Section 09: pH information information was added.
- Section 1: Product identification numbers information was modified.
- Section 01: SAP Material Numbers information was modified.
- Section 02: CLP Classification Statements information was added.
- Label: CLP Classification information was deleted.
- Section 03: Composition table % Column heading information was added.
- Section 3: Composition/ Information of ingredients table information was modified.
- Section 03: SCL table information was added.
- Section 03: Substance not applicable information was added.
- Section 04: Information on toxicological effects information was modified.
- Section 5: Fire - Advice for fire fighters information information was modified.
- Section 5: Hazardous combustion products table information was modified.
- Section 8: Occupational exposure limit table information was added.
- Section 8: Occupational exposure limit table information was modified.
- OEL Reg Agency Desc information was added.
- Section 8: STEL key information was added.
- Section 8: TWA key information was added.
- Section 09: Color information was added.
- Section 9: Evaporation Rate information information was deleted.
- Section 9: Explosive properties information information was deleted.
- Section 09: Kinematic Viscosity information information was added.
- Section 9: Melting point information information was modified.
- Section 09: Odor information was added.
- Sections 3 and 9: Odour, colour, grade information information was deleted.
- Section 9: Oxidising properties information information was deleted.
- Section 9: pH information information was deleted.
- Section 9: Property description for optional properties information was modified.
- Section 9: Vapor density text information was added.
- Section 9: Vapor density text information was deleted.
- Section 9: Viscosity information information was deleted.

Section 11: Acute Toxicity table information was modified.
Section 11: Aspiration Hazard Table information was added.
Section 11: Aspiration Hazard text information was deleted.
Section 11: Carcinogenicity Table information was added.
Section 11: Carcinogenicity text information was deleted.
Section 11: Classification disclaimer information was modified.
Section 11: Germ Cell Mutagenicity Table information was added.
Section 11: Germ Cell Mutagenicity text information was deleted.
Section 11: No endocrine disruptor information available warning information was added.
Section 11: Reproductive Toxicity Table information was added.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was added.
Section 11: Skin Sensitization text information was deleted.
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: 12.6. Endocrine Disrupting Properties information was added.
Section 12: 12.7. Other adverse effects information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Contact manufacturer for more detail. information was deleted.
Section 12: Mobility in soil information information was added.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: Persistence and Degradability information information was modified.
Section 12: Bioaccumulative potential information information was modified.
Section 13: 13.1. Waste disposal note information was modified.
Section 13: Standard Phrase Category Waste GHS information was modified.
Section 14 Classification Code – Main Heading information was added.
Section 14 Classification Code – Regulation Data information was added.
Section 14 Control Temperature – Main Heading information was added.
Section 14 Control Temperature – Regulation Data information was added.
Section 14 Disclaimer Information information was added.
Section 14 Emergency Temperature – Main Heading information was added.
Section 14 Emergency Temperature – Regulation Data information was added.
Section 14 Hazard Class + Sub Risk – Main Heading information was added.
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.
Section 14 Hazardous/Not Hazardous for Transportation information was added.
Section 14 Other Dangerous Goods – Main Heading information was added.
Section 14 Other Dangerous Goods – Regulation Data information was added.
Section 14 Packing Group – Main Heading information was added.
Section 14 Packing Group – Regulation Data information was added.
Section 14 Proper Shipping Name information was added.
Section 14 Regulations – Main Headings information was added.
Section 14 Segregation – Regulation Data information was added.
Section 14 Segregation Code – Main Heading information was added.
Section 14 Special Precautions – Main Heading information was added.
Section 14 Special Precautions – Regulation Data information was added.
Section 14 Transport in bulk – Regulation Data information was added.
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was added.
Section 14 UN Number Column data information was added.
Section 14 UN Number information was added.
Section 14: Transportation classification information was added.
Section 15: Carcinogenicity information information was added.
Section 15: Chemical Safety Assessment information was added.
Section 15: Seveso Substance Text information was added.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was added.

Section 16: UK disclaimer 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.

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