



Safety Data Sheet

Copyright, 2013, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group:	11-1458-6	Version number:	9.00
Revision date:	21/06/2013	Supersedes date:	20/11/2012
Transportation version number:	1.00 (12/01/2011)		

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™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

Product identification numbers

FS-9000-0277-5 FS-9000-2019-9 FS-9000-2037-1 FS-9000-2079-3 FS-9100-0290-6

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

Identified uses

Industrial use., Sealant.

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

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

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

This product is not classified as hazardous according to EU Directive 1999/45/EC.

2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbol(s)

None.

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)**Contains:**

No ingredients are assigned to the label.

Risk phrases None.

Safety phrases None.

Notes on labelling

Nota L applied to CAS 64741-88-4.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	9003-29-6	NLP 500-004-7	15 - 40	
Kaolin	1332-58-7	EINECS 310-194-1	15 - 40	
Carbon black	1333-86-4	EINECS 215-609-9	15 - 40	
Isobutylene - isoprene polymer	Trade Secret		10 - 30	
Talc	14807-96-6	EINECS 238-877-9	3 - 7	
Resin acids and Rosin acids, hydrogenated, esters with glycerol	65997-13-9	EINECS 266-042-9	1 - 5	Aquatic Chronic 4, H413 (Self Classified)
Resin acids and rosin acids, esters with glycerol	Trade Secret		1 - 5	
Titanium dioxide	13463-67-7	EINECS 236-675-5	1 - 5	
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	EINECS 265-090-8	1 - 5	Nota L (EU) Xn:R65; R66 (Self Classified) Nota L (CLP) Asp. Tox. 1, H304; EUH066 (Self Classified)
Quartz	14808-60-7	EINECS 238-878-4	0.1 - 1.0	Xn:R48/20 (Vendor) STOT RE 1, H372 (Self Classified)
Zinc oxide	1314-13-2	EINECS 215-222-5	< 0.02	N:R50/53 (EU) Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=1 (CLP)

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

Please refer to section 15 for the any applicable Notas that have been applied to the above components

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

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

Eye contact

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

If swallowed

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

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

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.

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>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.

5.3. Advice for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

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. 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

Avoid eye contact. For industrial or professional use only. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Kaolin	1332-58-7	Health and Safety Comm. (UK)	TWA (as respirable dust): 2 mg/m ³	
Carbon black	1333-86-4	Health and Safety Comm. (UK)	TWA: 3.5 mg/m ³ ; STEL: 7 mg/m ³	
Titanium dioxide	13463-67-7	Health and Safety Comm. (UK)	TWA(Inhalable):10 mg/m ³ ;TWA(respirable):4 mg/m ³	
Talc	14807-96-6	Health and Safety Comm. (UK)	TWA(as respirable dust):1 mg/m ³	
Silica, crystalline (airborne particles of respirable size)	14808-60-7	Health and Safety Comm. (UK)	TWA(respirable):0.1 mg/m ³	

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CELL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Not applicable.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

The following eye protection(s) are recommended: Safety glasses with side shields.

Skin/hand protection

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

Wear protective gloves.

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

Nitrile rubber.

Respiratory protection

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Paste
Appearance/Odour	Black; Odourless
Odour threshold	<i>No data available.</i>
pH	<i>No data available.</i>
Boiling point/boiling range	<i>Not applicable.</i>
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	100 °C [<i>Test Method:</i> Closed Cup]
Autoignition temperature	<i>Not applicable.</i>
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>No data available.</i>
Relative density	1.25 - 1.35 [<i>Ref Std:</i> WATER=1]
Water solubility	Nil
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	1.25 - 1.35 g/ml

9.2. Other information

Volatile organic compounds (VOC)	<i>No data available.</i>
Percent volatile	0 %
VOC less H ₂ O & exempt solvents	<i>No data available.</i>

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Substance

Condition

None known.

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

Prolonged or repeated exposure may cause:

Dermal Defatting: Signs/symptoms may include localised redness, itching, drying and cracking of skin.

Eye contact

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

Ingestion

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

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE >5,000 mg/kg
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Dermal	Rat	LD50 > 10,250 mg/kg
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Ingestion	Rat	LD50 > 34,600 mg/kg
Kaolin	Ingestion	Human	LD50 > 15,000 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg
Isobutylene - isoprene polymer	Ingestion		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	Dermal	Rabbit	LD50 > 2,000 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	Inhalation-Dust/Mist (4 hours)	Rat	LC50 2.2 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic	Ingestion	Rat	LD50 > 5,000 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.8 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Resin acids and rosin acids, esters with glycerol	Dermal	Rabbit	LD50 > 5,000 mg/kg
Resin acids and Rosin acids, hydrogenated, esters with glycerol	Ingestion	Rat	LD50 > 2,000 mg/kg
Resin acids and rosin acids, esters with glycerol	Ingestion	Rat	LD50 > 2,000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
Zinc oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Zinc oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
Zinc oxide	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)		Minimal irritation
Kaolin		No significant irritation
Carbon black		No significant irritation
Isobutylene - isoprene polymer		No significant irritation
Talc		No significant irritation
Distillates (petroleum), solvent-refined heavy paraffinic		Minimal irritation
Titanium dioxide		No significant irritation
Resin acids and Rosin acids, hydrogenated, esters with glycerol		Data not available or insufficient for classification
Resin acids and rosin acids, esters with glycerol		Minimal irritation
Quartz		No significant irritation
Zinc oxide	Human and animal	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)		Mild irritant
Kaolin		No significant irritation
Carbon black		Data not available or insufficient for classification
Isobutylene - isoprene polymer		No significant irritation
Talc		Data not available or insufficient for classification
Distillates (petroleum), solvent-refined heavy paraffinic		Mild irritant
Titanium dioxide		Mild irritant
Resin acids and Rosin acids, hydrogenated, esters with glycerol		Data not available or insufficient for classification
Resin acids and rosin acids, esters with glycerol		Mild irritant
Quartz		Data not available or insufficient for

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

		classification
Zinc oxide	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)		Data not available or insufficient for classification
Kaolin		Data not available or insufficient for classification
Carbon black		Data not available or insufficient for classification
Isobutylene - isoprene polymer		Data not available or insufficient for classification
Talc		Data not available or insufficient for classification
Distillates (petroleum), solvent-refined heavy paraffinic		Not sensitizing
Titanium dioxide		Not sensitizing
Resin acids and Rosin acids, hydrogenated, esters with glycerol		Data not available or insufficient for classification
Resin acids and rosin acids, esters with glycerol		Not sensitizing
Quartz		Data not available or insufficient for classification
Zinc oxide	Guinea pig	Some positive data exist, but the data are not sufficient for classification

Respiratory Sensitisation

Name	Species	Value
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)		Data not available or insufficient for classification
Kaolin		Data not available or insufficient for classification
Carbon black		Data not available or insufficient for classification
Isobutylene - isoprene polymer		Data not available or insufficient for classification
Talc		Not sensitizing
Distillates (petroleum), solvent-refined heavy paraffinic		Data not available or insufficient for classification
Titanium dioxide		Data not available or insufficient for classification
Resin acids and Rosin acids, hydrogenated, esters with glycerol		Data not available or insufficient for classification
Resin acids and rosin acids, esters with glycerol		Data not available or insufficient for classification
Quartz		Data not available or insufficient for classification
Zinc oxide		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)		Data not available or insufficient for classification
Kaolin		Data not available or insufficient for classification
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification
Isobutylene - isoprene polymer		Data not available or insufficient for classification

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

Talc	In vivo	Not mutagenic
Distillates (petroleum), solvent-refined heavy paraffinic	In Vitro	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	Ingestion	Not mutagenic
Resin acids and Rosin acids, hydrogenated, esters with glycerol		Data not available or insufficient for classification
Resin acids and rosin acids, esters with glycerol	In Vitro	Not mutagenic
Quartz	In vivo	Some positive data exist, but the data are not sufficient for classification
Zinc oxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Zinc oxide	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)			Data not available or insufficient for classification
Kaolin	Inhalation		Not carcinogenic
Carbon black	Dermal		Not carcinogenic
Carbon black	Ingestion		Not carcinogenic
Carbon black	Inhalation		Carcinogenic.
Isobutylene - isoprene polymer			Data not available or insufficient for classification
Talc	Inhalation		Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), solvent-refined heavy paraffinic	Dermal		Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	Ingestion		Not carcinogenic
Titanium dioxide	Inhalation		Some positive data exist, but the data are not sufficient for classification
Resin acids and Rosin acids, hydrogenated, esters with glycerol			Data not available or insufficient for classification
Resin acids and rosin acids, esters with glycerol			Data not available or insufficient for classification
Quartz	Inhalation		Carcinogenic.
Zinc oxide			Data not available or insufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)		Data not available or insufficient for classification			
Kaolin		Data not available or insufficient for classification			
Carbon black		Data not available or insufficient for classification			
Isobutylene - isoprene polymer		Data not available or insufficient for classification			
Talc	Ingestion	Not toxic to		NOEL 1,600	

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

		reproduction and/or development		mg/kg/day	
Distillates (petroleum), solvent-refined heavy paraffinic		Data not available or insufficient for classification			
Titanium dioxide		Data not available or insufficient for classification			
Resin acids and Rosin acids, hydrogenated, esters with glycerol		Data not available or insufficient for classification			
Resin acids and rosin acids, esters with glycerol	Ingestion	Not toxic to reproduction and/or development		NOAEL 5,000 mg/kg/day	
Quartz		Data not available or insufficient for classification			
Zinc oxide	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 125 mg/kg/day	prematuring & during gestation

Lactation

Name	Route	Species	Value
Resin acids and rosin acids, esters with glycerol	Ingestion		Does not cause effects on or via lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Carbon black	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Isobutylene - isoprene polymer			Data not available or insufficient for classification			
Talc	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Distillates (petroleum), solvent-refined heavy	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

paraffinic						
Distillates (petroleum), solvent-refined heavy paraffinic	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.51 mg/l	
Titanium dioxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Resin acids and rosin acids, esters with glycerol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Resin acids and Rosin acids, hydrogenated, esters with glycerol			Data not available or insufficient for classification			
Quartz	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Zinc oxide			Data not available or insufficient for classification			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		LOAEL 70 mg/m3	
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 70 mg/m3	
Kaolin	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	
Kaolin	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A	
Carbon black	Inhalation	heart	Some positive data exist, but the data are not sufficient for		NOEL N/A	

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

			classification			
Carbon black	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A	
Isobutylene - isoprene polymer			Data not available or insufficient for classification			
Talc	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	
Talc	Inhalation	pulmonary fibrosis respiratory system	Some positive data exist, but the data are not sufficient for classification		LOEL 6 mg/m3	
Distillates (petroleum), solvent-refined heavy paraffinic	Dermal	skin bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification		LOEL 5,000 mg/kg/day	
Distillates (petroleum), solvent-refined heavy paraffinic	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.21 mg/l	
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 10 mg/m3	
Titanium dioxide	Inhalation	pulmonary fibrosis	All data are negative		NOAEL N/A	
Resin acids and rosin acids, esters with glycerol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 200 mg/kg/day	
Resin acids and rosin acids, esters with glycerol	Ingestion	heart skin endocrine system bone, teeth, nails, and/or hair blood bone marrow hematopoietic system immune system muscles nervous system eyes kidney and/or bladder respiratory system	All data are negative		NOAEL 5,000 mg/kg/day	
Resin acids and Rosin acids, hydrogenated, esters with glycerol			Data not available or insufficient for classification			

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	
Zinc oxide	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 600 mg/kg/day	10 days
Zinc oxide	Ingestion	endocrine system hematopoietic system kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Other	NOAEL 500 mg/kg/day	6 months

Aspiration Hazard

Name	Value
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	Not an aspiration hazard
Kaolin	Not an aspiration hazard
Carbon black	Not an aspiration hazard
Isobutylene - isoprene polymer	Not an aspiration hazard
Talc	Not an aspiration hazard
Distillates (petroleum), solvent-refined heavy paraffinic	Aspiration hazard
Titanium dioxide	Not an aspiration hazard
Resin acids and Rosin acids, hydrogenated, esters with glycerol	Not an aspiration hazard
Resin acids and rosin acids, esters with glycerol	Not an aspiration hazard
Quartz	Not an aspiration hazard
Zinc oxide	Not an 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.

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 Nbr	Organism	Type	Exposure	Test endpoint	Test result
Titanium dioxide	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	13463-67-7	Sheepshead Minnow	Experimental	96 hours	LC50	>240 mg/l
Titanium	13463-67-7	Crustacea other	Experimental	96 hours	EC50	>300 mg/l

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

dioxide						
Zinc oxide	1314-13-2	Water flea	Experimental	48 hours	EC50	3.2 mg/l
Zinc oxide	1314-13-2	Green Algae	Experimental	72 hours	EC50	0.046 mg/l
Zinc oxide	1314-13-2	Chinook Salmon	Experimental	96 hours	LC50	0.23 mg/l
Titanium dioxide	13463-67-7	Fish	Experimental	30 days	NOEC	>=1,000 mg/l
Titanium dioxide	13463-67-7	Water flea	Experimental	30 days	NOEC	3 mg/l
Zinc oxide	1314-13-2	Green Algae	Experimental	72 hours	NOEC	0.021 mg/l
Carbon black	1333-86-4		Data not available or insufficient for classification			
Resin acids and Rosin acids, hydrogenated, esters with glycerol	65997-13-9		Data not available or insufficient for classification			
Kaolin	1332-58-7		Data not available or insufficient for classification			
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	9003-29-6		Data not available or insufficient for classification			
Quartz	14808-60-7		Data not available or insufficient for classification			
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4		Data not available or insufficient for classification			
Talc	14807-96-6		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Zinc oxide	1314-13-2	Estimated Hydrolysis		Hydrolytic half-life	10 hours (t 1/2)	Other methods
Carbon black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Talc	14807-96-6	Data not available or	N/A	N/A	N/A	N/A

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

		insufficient for classification				
Titanium dioxide	13463-67-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Quartz	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Resin acids and Rosin acids, hydrogenated, esters with glycerol	65997-13-9	Laboratory Biodegradation	28 days	CO2 evolution	47.3 % weight	OECD 301B - Modified sturm or CO2
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	9003-29-6	Estimated Biodegradation	28 days	CO2 evolution	<6.5 % weight	OECD 301B - Modified sturm or CO2
Kaolin	1332-58-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Quartz	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Talc	14807-96-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Kaolin	1332-58-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Carbon black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Butene, homopolymer (products derived from	9003-29-6	Estimated Bioconcentration		Bioaccumulation factor	<83	Estimated: Bioconcentration factor

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

either/or But-1-ene/But-2-ene)						
Zinc oxide	1314-13-2	Experimental BCF - Other	56 days	Bioaccumulation factor	<217	OECD 305E - Bioaccumulation flow-through fish test
Titanium dioxide	13463-67-7	Experimental BCF - Other	42 days	Bioaccumulation factor	9.6	Other methods
Resin acids and Rosin acids, hydrogenated, esters with glycerol	65997-13-9	Laboratory Bioaccumulation		Log Kow	5.8	Other methods
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. 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. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste. This product has been classified as a non-hazardous waste. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

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 10 Waste adhesives and sealants other than those mentioned in 08 04 09
20 01 28 Paint, inks, adhesives and resins other than those mentioned in 20 01 27

SECTION 14: Transportation information

FS-9000-0277-5, FS-9000-2019-9, FS-9000-2037-1, FS-9000-2079-3,

3M™ Scotch-Weld™ Preformed Sealant Black 5313 (manufactured as EU 7228)

FS-9100-0290-6, GT-5000-8934-4

Not hazardous for transportation

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>
Carbon black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Quartz	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Talc	14807-96-6	Gr. 3: Not classifiable	International Agency for Research on Cancer
Titanium dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA.

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.
H304	May be fatal if swallowed and enters airways.
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.
H413	May cause long lasting harmful effects to aquatic life.

List of relevant R-phrases

R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R65	Harmful: May cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

Revision information:

Revision Changes:

Section 3: Composition/ Information of ingredients table was modified.

Section 13: EU waste code (product as sold) information was modified.

Copyright was modified.

Section 11: Acute Toxicity table was modified.

Carcinogenicity Table was modified.

Serious Eye Damage/Irritation Table was modified.

Germ Cell Mutagenicity Table was modified.

Skin Sensitisation Table was modified.

Respiratory Sensitisation Table was modified.

Reproductive Toxicity Table was modified.
Skin Corrosion/Irritation Table was modified.
Target Organs - Repeated Table was modified.
Target Organs - Single Table was modified.
Section 5: Fire - Extinguishing media information was modified.
Section 12: Component ecotoxicity information was added.
Section 12: Persistence and Degradability information was added.
Section 12: Biocumulative potential information was added.
Section 12: Component Ecotoxicity table Material column header was added.
Section 12: Component Ecotoxicity table CAS No column header was added.
Section 12: Component Ecotoxicity table Organism column header was added.
Section 12: Component Ecotoxicity table Type column header was added.
Section 12: Component Ecotoxicity table Exposure column header was added.
Section 12: Component Ecotoxicity table End point column header was added.
Section 12: Component Ecotoxicity table Result column header was added.
Section 12: Persistence and degradability table Material column header was added.
Section 12: Persistence and degradability table CAS No column header was added.
Section 12: Persistence and degradability table Test Type column header was added.
Section 12: Persistence and degradability table Duration column header was added.
Section 12: Persistence and degradability table Test Result column header was added.
Section 12: Persistence and degradability table Protocol column header was added.
Section 12: Biocumulative potential table Material column header was added.
Section 12: Biocumulative potential table CAS No column header was added.
Section 12: Biocumulative potential table CAS No column header was added.
Section 12: Biocumulative potential table Test Result column header was added.
Section 12: Biocumulative potential table Protocol column header was added.
Section 12: Biocumulative potential table Test Type column header was added.
Section 12: Persistence and degradability table Study Type column header was added.
Section 12: Biocumulative potential table Test Type column header was added.
Section 9: Odour Threshold was added.
Section 9: Solubility (non-water) was added.
Section 09: Decomposition Temperature was added.
Prints No Data if Component ecotoxicity information is not present was deleted.
Prints No Data if Persistence and Degradability information is not present was deleted.
Prints No Data if Biocumulative potential information is not present 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.

3M United Kingdom MSDSs are available at www.3M.com/uk