



## Safety Data Sheet

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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

3M Brand Fire Barrier CP-25WB+

#### Product Identification Numbers

DE-2729-4483-1

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

##### Identified uses

Fire Protection

#### 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

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures.

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

##### Indication of danger

Dangerous for the environment; R52

For full text of R phrases, see Section 16.

**3M Brand Fire Barrier CP-25WB+****2.2. Label elements****CLP REGULATION (EC) No 1272/2008**

Not applicable

**SUPPLEMENTAL INFORMATION****Supplemental Hazard Statements:**

EUH208 Contains Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

**Notes on labelling**

Based on the available data, CASRN 1344-09-8 (sodium silicate) is classified as Skin 1C and Eye 1 at >50% and Skin 2/Eye 2A at 40-50%. At concentrations <40%, this substance would not be classified as irritating. Product is not classified as dangerous to the environment based on test data.

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

None.

**Contains:**

No ingredients are assigned to the label.

**Risk phrases**

R52 Harmful to aquatic organisms.

**Safety phrases**

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**Notes on labelling**

Based on the available data, CASRN 1344-09-8 (sodium silicate) is classified as C; R34 at >50% and Xi; R36/37/38 at 40-50%. At concentrations <40%, this substance would not be classified as irritating. Environmental classification based on test data.

**2.3. Other hazards**

None known.

**SECTION 3: Composition/information on ingredients**

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>EU Inventory</b>	<b>% by Wt</b>	<b>Classification</b>
Polymer	Trade Secret		10 - 30	
Non-Hazardous Ingredients	Mixture		10 - 30	
Boron zinc hydroxide oxide	138265-88-0		10 - 30	N:R51/53 (Self Classified)  Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=1 (Self Classified)
Silicic acid, sodium salt	1344-09-8	EINECS 215-687-4	10 - 30	C:R34; Xi:R37 (Self Classified)

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				Met. Corr. 1, H290; Acute Tox. 4, H302; Skin Corr. 1C, H314; STOT SE 3, H335 (Self Classified)
2-Ethylhexyl diphenyl phosphate	1241-94-7	EINECS 214-987-2	3 - 7	N:R50/53 (Self Classified)  Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 (Self Classified)
Polyethylene Glycol	25322-68-3		1 - 5	
Diiron trioxide	1309-37-1	EINECS 215-168-2	1 - 5	
Glass, oxide, chemicals	65997-17-3	EINECS 266-046-0	1 - 3	
Bis(2-Ethylhexyl) phenyl phosphate	16368-97-1	EINECS 240-424-5	< 1.0	N:R50/53 (Self Classified)  Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 (Self Classified)
Polyoxyethylene monoocetylphenyl ether	9036-19-5		< 1	Xi:R41; N:R51/53 (Vendor) Xn:R22 (Self Classified)  Eye Dam. 1, H318; Aquatic Chronic 2, H411 (Vendor) Acute Tox. 4, H302 (Self Classified)
Triphenyl phosphate	115-86-6	EINECS 204-112-2	< 1.0	N:R50/53 (Self Classified)  Aquatic Acute 1, H400,M=1; Aquatic Chronic 2, H411 (Self Classified)
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9		< 0.001	T:R23-24-25; C:R34; N:R50/53; R43 (EU)  Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=10 (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**

Remove person to fresh air. If you feel unwell, get medical attention.

**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**

Non-combustible. Use a fire fighting agent suitable for surrounding fire.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**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. 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**

Avoid eye contact. Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

**7.2. Conditions for safe storage including any incompatibilities**

Keep cool. Store away from heat. Store away from areas where product may come into contact with food or pharmaceuticals. Store in a dry place.

**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
Triphenyl phosphate	115-86-6	Health and Safety Comm. (UK)	TWA:3 mg/m <sup>3</sup> ;STEL:6 mg/m <sup>3</sup>	
Diiron trioxide	1309-37-1	Health and Safety Comm. (UK)	TWA(as Fe, fume):5 mg/m <sup>3</sup> ;TWA(Inhalable):10 mg/m <sup>3</sup> ;TWA(respirable):4 mg/m <sup>3</sup> ;STEL(as Fe, fume):10 mg/m <sup>3</sup>	
Glass, oxide, chemicals	65997-17-3	Health and Safety Comm. (UK)	TWA(as fiber):5 mg/m <sup>3</sup> (1 fibers/ml)	
Glass, oxide, chemicals	65997-17-3	Manufacturer determined	TWA(as dust):10 mg/m <sup>3</sup>	

Health and Safety Comm. (UK) : 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.

### 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

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect vented goggles.

##### 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: Butyl rubber.

Neoprene.

Nitrile rubber.

##### 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 particulates

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Paste
Appearance/Odour	Red with negligible odour
Odour threshold	<i>No data available.</i>

Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	No flash point
Autoignition temperature	<i>Not applicable.</i>
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>

Relative density 1.35 [*Ref Std:WATER=1*]

Water solubility Complete  
Solubility- non-water *No data available.*

Decomposition temperature *No data available.*

### 9.2. Other information

Volatile organic compounds (VOC)	< 1 g/l
VOC less H <sub>2</sub> O & exempt solvents	< 1 g/l

## 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>
Carbon monoxide.	Not specified.
Carbon dioxide.	Not specified.
Oxides of phosphorus.	Not specified.

## 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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin contact

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### Eye contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion

May be harmful if swallowed.

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

#### 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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE 2,000 - 5,000 mg/kg
Polymer	Ingestion	Rat	LD50 > 2,000 mg/kg
Boron zinc hydroxide oxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Boron zinc hydroxide oxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Silicic acid, sodium salt	Dermal	Rabbit	LD50 > 4,640 mg/kg
Silicic acid, sodium salt	Ingestion	Rat	LD50 500 mg/kg
2-Ethylhexyl diphenyl phosphate	Dermal	Rabbit	LD50 > 7,940 mg/kg
2-Ethylhexyl diphenyl phosphate	Ingestion	Rat	LD50 > 24,000 mg/kg
Diiron trioxide	Dermal	Not available	LD50 3,100 mg/kg

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Diiron trioxide	Ingestion	Not available	LD50 3,700 mg/kg
Polyethylene Glycol	Dermal	Rabbit	LD50 > 20,000 mg/kg
Polyethylene Glycol	Ingestion	Rat	LD50 32,770 mg/kg
Glass, oxide, chemicals	Dermal		LD50 estimated to be > 5,000 mg/kg
Glass, oxide, chemicals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Polyoxyethylene monoethylphenyl ether	Dermal	Rabbit	LD50 > 3,000 mg/kg
Polyoxyethylene monoethylphenyl ether	Ingestion	Rat	LD50 > 500 mg/kg
Triphenyl phosphate	Dermal	Rabbit	LD50 > 7,900 mg/kg
Triphenyl phosphate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 50 mg/l
Triphenyl phosphate	Ingestion	Rat	LD50 > 3,000 mg/kg
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Dermal	Rabbit	LD50 87 mg/kg
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.33 mg/l
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Polymer	Rabbit	Minimal irritation
Silicic acid, sodium salt	Rabbit	Corrosive
Diiron trioxide	Rabbit	No significant irritation
Polyethylene Glycol	Rabbit	Minimal irritation
Glass, oxide, chemicals		No significant irritation
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Rabbit	Corrosive

**Serious Eye Damage/Irritation**

Name	Species	Value
Polymer		Mild irritant
Silicic acid, sodium salt	Rabbit	Corrosive
Diiron trioxide	Rabbit	No significant irritation
Polyethylene Glycol	Rabbit	Mild irritant
Glass, oxide, chemicals		No significant irritation
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Rabbit	Corrosive

**Skin Sensitisation**

Name	Species	Value
Silicic acid, sodium salt	Mouse	Not sensitizing
Diiron trioxide	Human	Some positive data exist, but the data are not sufficient for classification
Polyethylene Glycol	Guinea pig	Not sensitizing
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Human and animal	Sensitising

**Photosensitisation**

Name	Species	Value
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Human and animal	Not sensitizing

**Respiratory Sensitisation**

Name	Species	Value

**3M Brand Fire Barrier CP-25WB+****Germ Cell Mutagenicity**

Name	Route	Value
Silicic acid, sodium salt	In Vitro	Not mutagenic
Silicic acid, sodium salt	In vivo	Not mutagenic
Diiron trioxide	In Vitro	Not mutagenic
Polyethylene Glycol	In Vitro	Not mutagenic
Polyethylene Glycol	In vivo	Not mutagenic
Glass, oxide, chemicals	In Vitro	Some positive data exist, but the data are not sufficient for classification
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	In vivo	Not mutagenic
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Diiron trioxide	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Polyethylene Glycol	Ingestion	Rat	Not carcinogenic
Glass, oxide, chemicals	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Dermal	Mouse	Not carcinogenic
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Ingestion	Rat	Not carcinogenic

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Silicic acid, sodium salt	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Mouse	NOAEL 200 mg/kg/day	during gestation
Polyethylene Glycol	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
Polyethylene Glycol	Ingestion	Not toxic to male reproduction	Rat	NOAEL 5699 +/- 1341 mg/kg/day	5 days
Polyethylene Glycol	Not specified.	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL N/A	
Polyethylene Glycol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Mouse	NOAEL 562 mg/animal/day	during gestation
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Ingestion	Not toxic to female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Ingestion	Not toxic to male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Ingestion	Not toxic to development	Rat	NOAEL 15 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
Silicic acid, sodium salt	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	

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Polyethylene Glycol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.008 mg/l	2 weeks
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	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
Silicic acid, sodium salt	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 2,400 mg/kg/day	4 weeks
Silicic acid, sodium salt	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 804 mg/kg/day	3 months
Silicic acid, sodium salt	Ingestion	blood	All data are negative	Rat	NOAEL 804 mg/kg/day	3 months
Silicic acid, sodium salt	Ingestion	heart   liver	All data are negative	Rat	NOAEL 1,259 mg/kg/day	8 weeks
Diiron trioxide	Inhalation	pulmonary fibrosis   pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Polyethylene Glycol	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.008 mg/l	2 weeks
Polyethylene Glycol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 5,640 mg/kg/day	13 weeks
Polyethylene Glycol	Ingestion	heart   endocrine system   hematopoietic system   liver   nervous system	All data are negative	Rat	NOAEL 5,640 mg/kg/day	13 weeks
Glass, oxide, chemicals	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL not available	occupational exposure

**Aspiration Hazard**

Name	Value

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**

Material	Organism	Type	Exposure	Test endpoint	Test result
3M Brand Fire Barrier CP-25WB+	Water flea	Experimental	48 hours	Aquatic Toxicity - Acute	27 mg/l
3M Brand Fire	Green algae	Experimental	72 hours	Aquatic Toxicity	2.6 mg/l

**3M Brand Fire Barrier CP-25WB+**

Barrier CP-25WB+				- Chronic	
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Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
2-Ethylhexyl diphenyl phosphate	1241-94-7	Green algae	Experimental	96 hours	EC50	0.2 mg/l
2-Ethylhexyl diphenyl phosphate	1241-94-7	Water flea	Experimental	48 hours	EC50	0.15 mg/l
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	Green algae	Experimental	96 hours	EC50	0.062 mg/l
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	Water flea	Experimental	48 hours	EC50	0.18 mg/l
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	Rainbow trout	Experimental	96 hours	LC50	0.07 mg/l
Bis(2-Ethylhexyl) phenyl phosphate	16368-97-1	Fathead minnow	Estimated	96 hours	LC50	0.36 mg/l
Diiron trioxide	1309-37-1	Fish other	Laboratory	48 hours	LC50	>1,000 mg/l
Polyethylene Glycol	25322-68-3	Atlantic Salmon	Experimental	96 hours	LC50	>1,000 mg/l
Silicic acid, sodium salt	1344-09-8	Water flea	Experimental	48 hours	EC50	1,700 mg/l
Silicic acid, sodium salt	1344-09-8	Rainbow trout	Experimental	96 hours	LC50	281 mg/l
Triphenyl phosphate	115-86-6	Rainbow trout	Experimental	96 hours	LC50	0.85 mg/l
Triphenyl phosphate	115-86-6	Water flea	Experimental	48 hours	EC50	1 mg/l
Triphenyl phosphate	115-86-6	Green algae	Experimental	72 hours	EC50	4 mg/l
Boron zinc hydroxide oxide	138265-88-0	Water flea	Estimated	48 hours	EC50	5.9 mg/l
Boron zinc	138265-88-0	Chinook	Estimated	96 hours	LC50	0.43 mg/l

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hydroxide oxide		Salmon				
Boron zinc hydroxide oxide	138265-88-0	Green Algae	Estimated	72 hours	EC50	0.085 mg/l
2-Ethylhexyl diphenyl phosphate	1241-94-7	Water flea	Experimental	21 days	NOEC	0.018 mg/l
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	Water flea	Experimental	21 days	NOEC	0.172 mg/l
Triphenyl phosphate	115-86-6	Water flea	Experimental	21 days	NOEC	0.25 mg/l
Triphenyl phosphate	115-86-6	Green algae	Experimental	72 hours	NOEC	0.98 mg/l
Triphenyl phosphate	115-86-6	Fathead minnow	Experimental	90 days	NOEC	0.087 mg/l
Boron zinc hydroxide oxide	138265-88-0	Green Algae	Estimated	72 hours	NOEC	0.039 mg/l
Polymer	Trade Secret		Data not available or insufficient for classification			
Glass, oxide, chemicals	65997-17-3		Data not available or insufficient for classification			
Polyoxyethylene monoethylphenyl ether	9036-19-5		Data not available or insufficient for classification			

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glass, oxide, chemicals	65997-17-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-Hazardous Ingredients	Mixture	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyoxyethylene	9036-19-5	Data not available or	N/A	N/A	N/A	N/A

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monoethylphenyl ether		insufficient for classification				
Boron zinc hydroxide oxide	138265-88-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicic acid, sodium salt	1344-09-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Diiron trioxide	1309-37-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Triphenyl phosphate	115-86-6	Experimental Hydrolysis		Hydrolytic half-life	19 days (t 1/2)	Other methods
Bis(2-Ethylhexyl) phenyl phosphate	16368-97-1	Estimated Biodegradation	28 days	BOD	55 % weight	OECD 301F - Manometric respirometry
Polyethylene Glycol	25322-68-3	Experimental Biodegradation	28 days	BOD	56.2 % weight	OECD 301C - MITI test (I)
2-Ethylhexyl diphenyl phosphate	1241-94-7	Experimental Biodegradation	28 days	CO2 evolution	67 % weight	Other methods
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	Experimental Biodegradation	28 days	CO2 evolution	48 % weight	Other methods
Triphenyl phosphate	115-86-6	Experimental Biodegradation	28 days	BOD	90 % weight	OECD 301C - MITI test (I)

**12.3 : Bioaccumulative potential**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Glass, oxide, chemicals	65997-17-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Non-Hazardous Ingredients	Mixture	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Diiron trioxide	1309-37-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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Polyoxyethylene monoethylphenyl ether	9036-19-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene Glycol	25322-68-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Ethylhexyl diphenyl phosphate	1241-94-7	Experimental BCF - Bluegill	36 days	Bioaccumulation factor	934	Other methods
Boron zinc hydroxide oxide	138265-88-0	Estimated Bioconcentration		Bioaccumulation factor	=217	OECD 305E - Bioaccumulation flow-through fish test
Silicic acid, sodium salt	1344-09-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Bis(2-Ethylhexyl) phenyl phosphate	16368-97-1	Estimated Bioconcentration		Bioaccumulation factor	1200	Other methods
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	Estimated Bioconcentration		Log Kow	0.5	Other methods
Triphenyl phosphate	115-86-6	Experimental BCF - Rainbow Tr	90 days	Bioaccumulation factor	271	Other methods

**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**

See Section 11.1 Information on toxicological effects

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. 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.

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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

DE-2729-4483-1

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>
Diiron trioxide	1309-37-1	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 China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of the Korean Toxic Chemical 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 Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). 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. 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

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

**List of relevant R-phrases**

R22 Harmful if swallowed.  
R23 Toxic by inhalation.  
R24 Toxic in contact with skin.  
R25 Toxic if swallowed.  
R34 Causes burns.  
R37 Irritating to respiratory system.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.  
R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.  
R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.  
R52 Harmful to aquatic organisms.

**Revision information:**

Revision Changes:

Section 8: Skin protection - recommended gloves information information was modified.

Risk phrase information was modified.

Section 1: Product identification numbers heading information was modified.

Section 15: Carcinogenicity information information was modified.

Section 16: List of relevant R phrase information information was modified.

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

Section 2: Indication of danger information information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Bioaccumulative potential information information was modified.

Section 2: Label remarks information was modified.

Copyright information was modified.

Label: CLP Classification information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Carcinogenicity Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

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

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

Section 5: Fire - Extinguishing media information information was modified.

Section 7: Precautions safe handling information information was modified.

Section 7: Conditions safe storage information was modified.

Section 8: Personal Protection - Eye information information was modified.

Section 8: Personal Protection - Respiratory Information information was modified.

Section 13: 13.1. Waste disposal note information was modified.

Section 8: Respiratory protection - recommended respirators information information was added.

Section 8: Respiratory protection - recommended respirators guide information was added.

Section 12: Material ecotoxicity information information was added.

Section 12: Material Ecotoxicity table Material column header information was added.

Section 12: Material Ecotoxicity table Organism column header information was added.

Section 12: Material Ecotoxicity table Type column header information was added.

Section 12: Material Ecotoxicity table Exposure column header information was added.

Section 12: Material Ecotoxicity table End point column header information was added.

Section 12: Material Ecotoxicity table Result column header information was added.

Section 2: Notes on labelling heading information was added.

Section 15: Label remarks and EU Detergent information was added.  
Section 11: Photosensitisation table - Name heading information was added.  
Section 11: Photosensitisation table heading information was added.  
Photosensitisation Table information was added.  
Section 11: Photosensitisation table - Species heading information was added.  
Section 11: Photosensitisation table - Value heading information was added.  
Section 8: Personal Protection - Skin/hand information information was added.  
Not applicable information was added.  
Section 11: Disclosed components not in tables text information was added.  
Section 8: 8.1.1 Biological limit values table heading information was added.  
Section 8: BLV information was added.  
Section 02: Graphic information information was added.  
Section 8: Eye/face protection text information was deleted.  
Section 8: Skin protection - protective clothing text information was deleted.  
Prints No Data if Material ecotoxicity information is not present information was deleted.  
Label: Signal Word - Header information was deleted.  
Label: Signal Word information was deleted.  
Label: CLP Classification - Header information was deleted.  
Label: CLP Environmental Hazard Statements information was deleted.  
Label: Graphic information was deleted.  
Label: Graphic information was deleted.  
Label: Symbol information was deleted.  
Label: Symbol information was deleted.  
Label: CLP Precautionary - Disposal information was deleted.  
Label: CLP Precautionary - Disposal - Header information was deleted.  
Label: CLP Precautionary - Prevention information was deleted.  
Label: CLP Precautionary - Prevention - Header information was deleted.  
Label: Precautionary Statement - Header information was deleted.  
Section 8: mg/m<sup>3</sup> key information was deleted.  
Section 8: ppm key information was deleted.  
Section 11: Aspiration Hazard Table information was deleted.  
Section 11: Respiratory Sensitization Table information was deleted.  
Section 2: H phrase reference information was deleted.  
Label: Graphic information was deleted.  
Label: Graphic Text information was deleted.

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