



Safety Data Sheet

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Document group:	28-8646-3	Version number:	4.00
Revision date:	12/12/2016	Supersedes date:	16/03/2015
Transportation version number:	1.00 (23/09/2011)		

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 Scotchkote WB Urethane Dicol 170, Tinted White (Part A)

Product Identification Numbers

GR-2001-3418-1 UU-0041-9439-3

7000087201 7100080379

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

Identified uses

Coating.

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:

Skin Sensitization, Category 1A - Skin Sens. 1A; H317

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

3M Scotchkote WB Urethane Dicol 170, Tinted White (Part A)

SIGNAL WORD

WARNING.

Symbols:

GHS07 (Exclamation mark) |

Pictograms



Ingredients:

Ingredient	CAS Nbr	% by Wt
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	126-86-3	< 1
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0.05
2-methyl-2H-isothiazol-3-one	2682-20-4	< 0.005

HAZARD STATEMENTS:

H317 May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS

Prevention:

P280E Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

48% of the mixture consists of components of unknown acute oral toxicity.

48% of the mixture consists of components of unknown acute dermal toxicity.

69% of the mixture consists of components of unknown acute inhalation toxicity.

Contains 22% of components with unknown hazards to the aquatic environment.

EU VOC Directive (2004/42/EC) labelling: 2004/42/EC IIA(jWB)(140)

112 g/l

Notes on labelling

Nota P applied to CAS# 64742-95-6.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non-hazardous ingredients	Mixture		60 - 100	Substance not classified as hazardous
Titanium dioxide	13463-67-7	236-675-5	20 - 30	Substance with a Community level exposure limit in the workplace
Bismuth vanadium tetraoxide	14059-33-7	237-898-0	< 10	STOT RE 2, H373 (Self)

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				Classified)
Iron hydroxide oxide	20344-49-4	243-746-4	< 10	Substance not classified as hazardous
Diiron trioxide	1309-37-1	215-168-2	< 10	Substance with a Community level exposure limit in the workplace
Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis[4-(1,1-dimethylethyl)phenyl]-2,5-dihydro-	84632-59-7		< 5	Substance not classified as hazardous
Solvent naphtha (petroleum), light aromatic	64742-95-6	265-199-0	1 - 5	Asp. Tox. 1, H304 - Nota P (CLP) Flam. Liq. 3, H226; Aquatic Chronic 2, H411 (Vendor) Skin Irrit. 2, H315; STOT SE 3, H336 (Self Classified)
Propane-1,2-diol	57-55-6	200-338-0	< 5	Substance with a Community level exposure limit in the workplace
Carbon black	1333-86-4	215-609-9	< 5	Substance with a Community level exposure limit in the workplace
2-Butoxyethanol	111-76-2	203-905-0	1 - 5	Acute Tox. 4, H332; Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 (CLP)
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	147-14-8	205-685-1	< 5	Substance not classified as hazardous
Polychloro copper phthalocyanine	1328-53-6	215-524-7	< 5	Substance not classified as hazardous
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	126-86-3	204-809-1	< 1	Eye Dam. 1, H318; Skin Sens. 1B, H317; Aquatic Chronic 2, H411 (Self Classified)
2-Dimethylaminoethanol	108-01-0	203-542-8	< 1	Flam. Liq. 3, H226; Acute Tox. 3, H331; Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1B, H314; STOT SE 3, H335 (CLP)
1,2,4-Trimethylbenzene	95-63-6	202-436-9	< 1	Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 2, H411 (CLP)
N-Propylbenzene	103-65-1	203-132-9	< 1	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335; Aquatic Chronic 2, H411 - Nota C (CLP)
Mesitylene	108-67-8	203-604-4	< 0.5	Flam. Liq. 3, H226; STOT SE 3, H335; Aquatic Chronic 2, H411 (CLP)
1,2-Benzisothiazol-3(2H)-one	2634-33-5	220-120-9	< 0.05	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400,M=1 (CLP)
2-methyl-2H-isothiazol-3-one	2682-20-4	220-239-6	< 0.005	Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317;

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				Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=10 (Self Classified)
2-Bromo-2-nitro-1,3-propanediol	52-51-7	200-143-0	< 0.1	Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335; Aquatic Acute 1, H400,M=1 (CLP)
Benzene	71-43-2	200-753-7	< 0.1	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372 (CLP) Aquatic Chronic 3, H412 (Self Classified)

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

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

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

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

Skin contact

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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products**Substance**

Aldehydes.
Carbon monoxide.

Condition

During combustion.
During combustion.

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Carbon dioxide.

During combustion.

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Store away from acids. Store away from strong bases. Store away from oxidising agents.

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
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2-Dimethylaminoethanol	108-01-0	UK HSC	TWA:7.4 mg/m ³ (2 ppm);STEL:22 mg/m ³ (6 ppm)	
2-Butoxyethanol	111-76-2	UK HSC	TWA:123 mg/m ³ (25 ppm);STEL:246 mg/m ³ (50 ppm)	SKIN
Diiron trioxide	1309-37-1	UK HSC	TWA(as Fe, fume):5 mg/m ³ ;TWA(Inhalable):10 mg/m ³ ;TWA(respirable):4 mg/m ³ ;STEL(as Fe, fume):10 mg/m ³	
Carbon black	1333-86-4	UK HSC	TWA: 3.5 mg/m ³ ; STEL: 7 mg/m ³	
Titanium dioxide	13463-67-7	UK HSC	TWA(Inhalable):10 mg/m ³ ;TWA(respirable):4 mg/m ³	
Propane-1,2-diol	57-55-6	UK HSC	TWA(as particulate):10 mg/m ³ ;TWA(as total vapour and particulates):474 mg/m ³ (150 ppm)	
Benzene	71-43-2	UK HSC	TWA:3.25 mg/m ³ (1 ppm)	SKIN

UK HSC : UK Health and Safety Commission
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

Biological limit values

Ingredient	CAS Nbr	Agency	Determinant	Biological Specimen	Sampling Time	Value	Additional comments
2-Butoxyethanol	111-76-2	UK EH40 BMGVs	Butoxyacetic acid	Creatinine in urine	EOS	240 mmol/mol	

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)
EOS: End of shift.

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:
Safety glasses with side shields.

Skin/hand protection

Wear protective gloves.
Gloves made from the following material(s) are recommended:

Material	Thickness (mm)	Breakthrough Time
Butyl rubber.	No data available	No data available
Polymer laminate	No data available	No data available

Respiratory protection

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An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Liquid.
Appearance/Odour	Faint musty odour; White colour
Odour threshold	<i>No data available.</i>
pH	8.5
Boiling point/boiling range	≥ 100 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	65 °C [<i>Test Method:</i> Closed Cup]
Autoignition temperature	415 °C
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	$\leq 4,600$ Pa [<i>@ 20 °C</i>]
Relative density	1.26 [<i>Ref Std:</i> WATER=1]
Water solubility	Moderate
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	1.26 g/ml

9.2. Other information

Percent volatile	51.84 % weight
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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

None known.

10.5 Incompatible materials

Accelerators
Alcohols.
Amines.
Strong acids.
Strong bases.
Strong oxidising agents.

10.6 Hazardous decomposition products

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

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

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. May cause additional health effects (see below).

Skin contact

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

Eye contact

Contact with the eyes during product use is not expected to result in significant irritation. Vapours released during curing may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Blood effects: Signs/symptoms may include generalised weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and hemoglobinemia.

Prolonged or repeated exposure may cause target organ effects:

Blood effects: Signs/symptoms may include generalised weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and hemoglobinemia.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

3M Scotchkote WB Urethane Dicol 170, Tinted White (Part A)**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
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Diiron trioxide	Dermal	Not available	LD50 3,100 mg/kg
Diiron trioxide	Ingestion	Not available	LD50 3,700 mg/kg
Iron hydroxide oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Iron hydroxide oxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Bismuth vanadium tetraoxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Bismuth vanadium tetraoxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.2 mg/l
Bismuth vanadium tetraoxide	Ingestion	Rat	LD50 > 5,000 mg/kg
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Dermal		LD50 estimated to be > 5,000 mg/kg
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Ingestion	Rat	LD50 10,000 mg/kg
Polychloro copper phthalocyanine	Dermal		LD50 estimated to be > 5,000 mg/kg
Polychloro copper phthalocyanine	Ingestion	Rat	LD50 > 5,000 mg/kg
2-Butoxyethanol	Dermal	Guinea pig	LD50 > 2,000 mg/kg
2-Butoxyethanol	Inhalation-Vapour (4 hours)	Guinea pig	LC50 > 2.6 mg/l
2-Butoxyethanol	Ingestion	Guinea pig	LD50 1,414 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg
Solvent naphtha (petroleum), light aromatic	Dermal	Rabbit	LD50 > 2,000 mg/kg
Solvent naphtha (petroleum), light aromatic	Inhalation-Vapour (4 hours)	Rat	LC50 > 5.2 mg/l
Solvent naphtha (petroleum), light aromatic	Ingestion	Rat	LD50 > 5,000 mg/kg
2-Dimethylaminoethanol	Dermal	Rabbit	LD50 1,220 mg/kg
2-Dimethylaminoethanol	Inhalation-Vapour (4 hours)	Rat	LC50 6 mg/l
2-Dimethylaminoethanol	Ingestion	Rat	LD50 1,803 mg/kg
1,2,4-Trimethylbenzene	Dermal	Rabbit	LD50 > 3,160 mg/kg
1,2,4-Trimethylbenzene	Inhalation-Vapour (4 hours)	Rat	LC50 18 mg/l
1,2,4-Trimethylbenzene	Ingestion	Rat	LD50 3,400 mg/kg
Propane-1,2-diol	Dermal	Rabbit	LD50 20,800 mg/kg
Propane-1,2-diol	Ingestion	Rat	LD50 22,000 mg/kg
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	Dermal	Rat	LD50 > 2,000 mg/kg
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	Ingestion	Rat	LD50 > 500 mg/kg
Mesitylene	Dermal	Rabbit	LD50 > 3,160 mg/kg
Mesitylene	Inhalation-Vapour (4 hours)	Rat	LC50 18 mg/l
Mesitylene	Ingestion	Rat	LD50 3,400 mg/kg
N-Propylbenzene	Dermal		LD50 estimated to be > 5,000 mg/kg
N-Propylbenzene	Ingestion	Rat	LD50 6,040 mg/kg
2-methyl-2H-isothiazol-3-one	Dermal	Rabbit	LD50 87 mg/kg
2-methyl-2H-isothiazol-3-one	Inhalation-	Rat	LC50 0.33 mg/l

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	Dust/Mist (4 hours)		
2-methyl-2H-isothiazol-3-one	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Titanium dioxide	Rabbit	No significant irritation
Diiron trioxide	Rabbit	No significant irritation
Iron hydroxide oxide	Rabbit	No significant irritation
Bismuth vanadium tetraoxide	Rabbit	No significant irritation
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Rabbit	No significant irritation
Polychloro copper phthalocyanine	Rabbit	No significant irritation
2-Butoxyethanol	Rabbit	Irritant
Carbon black	Rabbit	No significant irritation
Solvent naphtha (petroleum), light aromatic	Rabbit	Irritant
2-Dimethylaminoethanol	Rabbit	Corrosive
1,2,4-Trimethylbenzene	Rabbit	Irritant
Propane-1,2-diol	Rabbit	No significant irritation
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	Rabbit	No significant irritation
Mesitylene	Rabbit	Irritant
N-Propylbenzene	similar compounds	Mild irritant
2-methyl-2H-isothiazol-3-one	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Titanium dioxide	Rabbit	No significant irritation
Diiron trioxide	Rabbit	No significant irritation
Iron hydroxide oxide	Rabbit	No significant irritation
Bismuth vanadium tetraoxide	Rabbit	No significant irritation
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Rabbit	No significant irritation
Polychloro copper phthalocyanine	Rabbit	No significant irritation
2-Butoxyethanol	Rabbit	Severe irritant
Carbon black	Rabbit	No significant irritation
Solvent naphtha (petroleum), light aromatic	Rabbit	Mild irritant
2-Dimethylaminoethanol	official classification	Corrosive
1,2,4-Trimethylbenzene	Rabbit	Mild irritant
Propane-1,2-diol	Rabbit	No significant irritation
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	Rabbit	Corrosive
Mesitylene	Rabbit	Mild irritant
N-Propylbenzene	similar compounds	Mild irritant
2-methyl-2H-isothiazol-3-one	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Titanium dioxide	Human and animal	Not sensitising
Diiron trioxide	Human	Some positive data exist, but the data are not sufficient for classification
Iron hydroxide oxide	Human and animal	Not sensitising
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Human	Not sensitising
Polychloro copper phthalocyanine	Guinea	Not sensitising

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	pig	
2-Butoxyethanol	Guinea pig	Not sensitising
Solvent naphtha (petroleum), light aromatic	Guinea pig	Not sensitising
2-Dimethylaminoethanol	Mouse	Some positive data exist, but the data are not sufficient for classification
1,2,4-Trimethylbenzene	Guinea pig	Not sensitising
Propane-1,2-diol	Human	Some positive data exist, but the data are not sufficient for classification
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-Mesitylene	Mouse	Sensitising
	Guinea pig	Not sensitising
2-methyl-2H-isothiazol-3-one	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
2-methyl-2H-isothiazol-3-one	Human and animal	Not sensitising

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
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic
Diiron trioxide	In Vitro	Not mutagenic
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	In Vitro	Not mutagenic
Polychloro copper phthalocyanine	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-Butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Carbon black	In Vitro	Not mutagenic
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification
2-Dimethylaminoethanol	In Vitro	Not mutagenic
2-Dimethylaminoethanol	In vivo	Not mutagenic
1,2,4-Trimethylbenzene	In Vitro	Not mutagenic
Propane-1,2-diol	In Vitro	Not mutagenic
Propane-1,2-diol	In vivo	Not mutagenic
Mesitylene	In Vitro	Not mutagenic
2-methyl-2H-isothiazol-3-one	In vivo	Not mutagenic
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
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.
Diiron trioxide	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Iron hydroxide oxide	Inhalation	Rat	Not carcinogenic
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Ingestion	Mouse	Not carcinogenic
2-Butoxyethanol	Inhalation	Multiple animal	Some positive data exist, but the data are not sufficient for classification

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		species	
Carbon black	Dermal	Mouse	Not carcinogenic
Carbon black	Ingestion	Mouse	Not carcinogenic
Carbon black	Inhalation	Rat	Carcinogenic.
Solvent naphtha (petroleum), light aromatic	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
Propane-1,2-diol	Dermal	Mouse	Not carcinogenic
Propane-1,2-diol	Ingestion	Multiple animal species	Not carcinogenic
2-methyl-2H-isothiazol-3-one	Dermal	Mouse	Not carcinogenic
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
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	42 days
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Ingestion	Not toxic to development	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
2-Butoxyethanol	Dermal	Not toxic to development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-Butoxyethanol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	during organogenesis
2-Butoxyethanol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.48 mg/l	during organogenesis
Solvent naphtha (petroleum), light aromatic	Inhalation	Not toxic to female reproduction	Rat	NOAEL 1,500 ppm	2 generation
Solvent naphtha (petroleum), light aromatic	Inhalation	Not toxic to male reproduction	Rat	NOAEL 1,500 ppm	2 generation
Solvent naphtha (petroleum), light aromatic	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 500 ppm	2 generation
2-Dimethylaminoethanol	Inhalation	Not toxic to development	Rat	NOAEL 0.3 mg/l	during gestation
2-Dimethylaminoethanol	Ingestion	Some positive female reproductive data exist, but the data are not sufficient for classification	Rat	LOAEL 300 mg/kg	during gestation
2-Dimethylaminoethanol	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.13 mg/l	9 days
2-Dimethylaminoethanol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	LOAEL 300 mg/kg/day	during gestation
1,2,4-Trimethylbenzene	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.2 mg/l	3 months
1,2,4-Trimethylbenzene	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.2 mg/l	3 months
1,2,4-Trimethylbenzene	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 1.5 mg/l	during gestation
Propane-1,2-diol	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 10,100 mg/kg/day	2 generation

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Propane-1,2-diol	Ingestion	Not toxic to male reproduction	Mouse	NOAEL 10,100 mg/kg/day	2 generation
Propane-1,2-diol	Ingestion	Not toxic to development	Multiple animal species	NOAEL 1,230 mg/kg/day	during organogenesis
Mesitylene	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.2 mg/l	3 months
Mesitylene	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.2 mg/l	3 months
Mesitylene	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 1.5 mg/l	during gestation
2-methyl-2H-isothiazol-3-one	Ingestion	Not toxic to female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-methyl-2H-isothiazol-3-one	Ingestion	Not toxic to male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
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
2-Butoxyethanol	Dermal	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 902 mg/kg	6 hours
2-Butoxyethanol	Dermal	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 72 mg/kg	not available
2-Butoxyethanol	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 451 mg/kg	6 hours
2-Butoxyethanol	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
2-Butoxyethanol	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2-Butoxyethanol	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
2-Butoxyethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	poisoning and/or abuse
Solvent naphtha (petroleum), light aromatic	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Solvent naphtha (petroleum), light aromatic	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL Not available	
Solvent naphtha (petroleum), light aromatic	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional	NOAEL Not available	

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				judgement		
2-Dimethylaminoethanol	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL 0.09 mg/l	90 days
1,2,4-Trimethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
1,2,4-Trimethylbenzene	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
1,2,4-Trimethylbenzene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Propane-1,2-diol	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Mesitylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Mesitylene	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
Mesitylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
N-Propylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	similar compounds	NOAEL Not available	
N-Propylbenzene	Inhalation	respiratory irritation	May cause respiratory irritation	similar compounds	NOAEL Not available	
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
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	All data are negative	Human	NOAEL Not available	occupational exposure
Diiron trioxide	Inhalation	pulmonary fibrosis pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Iron hydroxide oxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.2 mg/l	14 days
Iron hydroxide oxide	Inhalation	liver kidney and/or bladder	All data are negative	Rat	NOAEL 0.2 mg/l	14 days
Bismuth vanadium tetraoxide	Inhalation	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.02 mg/l	28 days
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Ingestion	endocrine system hematopoietic system respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	28 days
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
2-Butoxyethanol	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
2-Butoxyethanol	Dermal	endocrine system	All data are negative	Rabbit	NOAEL 150	90 days

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					mg/kg/day	
2-Butoxyethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.4 mg/l	14 weeks
2-Butoxyethanol	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.15 mg/l	14 weeks
2-Butoxyethanol	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.15 mg/l	6 months
2-Butoxyethanol	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 1.9 mg/l	8 days
2-Butoxyethanol	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 69 mg/kg/day	13 weeks
2-Butoxyethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
Carbon black	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
2-Dimethylaminoethanol	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.13 mg/l	9 days
2-Dimethylaminoethanol	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.37 mg/l	9 days
1,2,4-Trimethylbenzene	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.5 mg/l	3 months
1,2,4-Trimethylbenzene	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.1 mg/l	3 months
1,2,4-Trimethylbenzene	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
1,2,4-Trimethylbenzene	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.2 mg/l	3 months
1,2,4-Trimethylbenzene	Inhalation	heart endocrine system immune system	All data are negative	Rat	NOAEL 1.2 mg/l	3 months
1,2,4-Trimethylbenzene	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 600 mg/kg/day	14 days
1,2,4-Trimethylbenzene	Ingestion	liver immune system kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	28 days
Propane-1,2-diol	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 1,370 mg/kg/day	117 days
Propane-1,2-diol	Ingestion	kidney and/or bladder	All data are negative	Dog	NOAEL 5,000 mg/kg/day	104 weeks
Mesitylene	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.5 mg/l	3 months
Mesitylene	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.1 mg/l	3 months
Mesitylene	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Mesitylene	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.2 mg/l	3 months
Mesitylene	Inhalation	heart endocrine	All data are negative	Rat	NOAEL 1.2	3 months

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		system immune system			mg/l	
Mesitylene	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 600 mg/kg/day	14 days
Mesitylene	Ingestion	liver immune system kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	28 days

Aspiration Hazard

Name	Value
Solvent naphtha (petroleum), light aromatic	Aspiration hazard
1,2,4-Trimethylbenzene	Aspiration hazard
Mesitylene	Aspiration hazard
N-Propylbenzene	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 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 Nbr	Organism	Type	Exposure	Test endpoint	Test result
Pyrrolo[3,4-c]pyrrole-1,4-dione, 3,6-bis[4-(1,1-dimethylethyl)phenyl]-2,5-dihydro-	84632-59-7		Data not available or insufficient for classification			
N-Propylbenzene	103-65-1	Water flea	Experimental	24 hours	EC50	2 mg/l
N-Propylbenzene	103-65-1	Green Algae	Experimental	72 hours	EC50	1.8 mg/l
N-Propylbenzene	103-65-1	Rainbow trout	Experimental	96 hours	LC50	1.55 mg/l
1,2-Benzisothiazol-3(2H)-one	2634-33-5	Crustacea other	Experimental	48 hours	EC50	0.062 mg/l
1,2-Benzisothiazol-3(2H)-one	2634-33-5	Algae	Experimental	72 hours	EC50	0.15 mg/l
1,2-Benzisothiazol-3(2H)-one	2634-33-5	Rainbow trout	Experimental	96 hours	LC50	1.6 mg/l
1,2-Benzisothiazol-3(2H)-one	2634-33-5	Water flea	Experimental	48 hours	EC50	4.4 mg/l
Mesitylene	108-67-8	Goldfish	Experimental	96 hours	LC50	12.5 mg/l

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Mesitylene	108-67-8	Water flea	Experimental	21 days	NOEC	0.4 mg/l
Mesitylene	108-67-8	Water flea	Experimental	48 hours	EC50	6 mg/l
Solvent naphtha (petroleum), light aromatic	64742-95-6		Data not available or insufficient for classification			
Titanium dioxide	13463-67-7	Fish	Experimental	30 days	NOEC	>100 mg/l
Titanium dioxide	13463-67-7	Water flea	Experimental	30 days	NOEC	3 mg/l
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
Carbon black	1333-86-4		Data not available or insufficient for classification			
Polychloro copper phthalocyanine	1328-53-6	Water flea	Experimental	21 days	NOEC	>100 mg/l
Polychloro copper phthalocyanine	1328-53-6	Green algae	Experimental	72 hours	Effect Concentration 10%	>100 mg/l
Polychloro copper phthalocyanine	1328-53-6	Water flea	Experimental	48 hours	EC50	153.6 mg/l
Polychloro copper phthalocyanine	1328-53-6	Rainbow trout	Experimental	96 hours	LC50	355.6 mg/l
Polychloro copper phthalocyanine	1328-53-6	Green algae	Experimental	72 hours	EC50	>100 mg/l
29H,31H-Phthalocyanina to(2-)-N29,N30,N31, N32 copper	147-14-8	Green algae	Estimated	72 hours	Effect Concentration 10%	>100 mg/l
29H,31H-Phthalocyanina to(2-)-N29,N30,N31, N32 copper	147-14-8	Green algae	Estimated	72 hours	EC50	>100 mg/l
29H,31H-Phthalocyanina to(2-)-N29,N30,N31, N32 copper	147-14-8	Water flea	Estimated	21 days	NOEC	>=1 mg/l
29H,31H-Phthalocyanina to(2-)-N29,N30,N31, N32 copper	147-14-8	Water flea	Estimated	48 hours	EC50	>500 mg/l
29H,31H-Phthalocyanina	147-14-8	Rainbow trout	Experimental	96 hours	LC50	355.6 mg/l

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to(2-)- N29,N30,N31, N32 copper						
Diiron trioxide	1309-37-1	Golden Orfe	Experimental	48 hours	LC50	>1,000 mg/l
1,2,4- Trimethylbenze ne	95-63-6	Mysid Shrimp	Experimental	96 hours	LC50	2 mg/l
1,2,4- Trimethylbenze ne	95-63-6	Water flea	Experimental	48 hours	EC50	3.6 mg/l
1,2,4- Trimethylbenze ne	95-63-6	Fathead minnow	Experimental	96 hours	LC50	7.72 mg/l
Propane-1,2- diol	57-55-6	Crustacea other	Experimental	96 hours	LC50	18,800 mg/l
Propane-1,2- diol	57-55-6	Water flea	Experimental	7 days	NOEC	13,020 mg/l
Propane-1,2- diol	57-55-6	Green algae	Experimental	96 hours	NOEC	15,000 mg/l
Propane-1,2- diol	57-55-6	Green Algae	Experimental	96 hours	EC50	19,000 mg/l
Propane-1,2- diol	57-55-6	Fathead minnow	Experimental	96 hours	LC50	55,770 mg/l
Propane-1,2- diol	57-55-6	Water flea	Experimental	48 hours	EC50	18,340 mg/l
Bismuth vanadium tetraoxide	14059-33-7		Data not available or insufficient for classification			
5-Decyne-4,7- diol, 2,4,7,9- tetramethyl-	126-86-3	Green algae	Experimental	72 hours	NOEC	1 mg/l
5-Decyne-4,7- diol, 2,4,7,9- tetramethyl-	126-86-3	Green Algae	Experimental	72 hours	EC50	15 mg/l
5-Decyne-4,7- diol, 2,4,7,9- tetramethyl-	126-86-3	Fathead minnow	Experimental	96 hours	LC50	36 mg/l
5-Decyne-4,7- diol, 2,4,7,9- tetramethyl-	126-86-3	Water flea	Experimental	48 hours	EC50	88 mg/l
2- Dimethylamino ethanol	108-01-0	Green algae	Experimental	72 hours	EC50	35 mg/l
2- Dimethylamino ethanol	108-01-0	Water flea	Experimental	48 hours	EC50	99 mg/l
2- Dimethylamino ethanol	108-01-0	Fathead minnow	Experimental	96 hours	LC50	81 mg/l
Benzene	71-43-2	Green algae	Experimental	72 hours	Effect Concentration 10%	34 mg/l
Benzene	71-43-2	Water flea	Experimental	7 days	NOEC	3 mg/l

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Benzene	71-43-2	Fathead minnow	Experimental	32 days	NOEC	0.8 mg/l
Benzene	71-43-2	Water flea	Experimental	48 hours	EC50	9.23 mg/l
Benzene	71-43-2	Rainbow trout	Experimental	96 hours	LC50	5.3 mg/l
Benzene	71-43-2	Green Algae	Experimental	72 hours	EC50	29 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Water flea	Experimental	48 hours	EC50	0.18 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Rainbow trout	Experimental	96 hours	LC50	0.07 mg/l
2-Butoxyethanol	111-76-2	Crustacea	Experimental	96 hours	EC50	89.4 mg/l
2-Butoxyethanol	111-76-2	Rainbow trout	Experimental	96 hours	LC50	1,474 mg/l
2-Butoxyethanol	111-76-2	Water flea	Experimental	21 days	NOEC	100 mg/l
2-Butoxyethanol	111-76-2	Green Algae	Experimental	72 hours	NOEC	130 mg/l
2-Butoxyethanol	111-76-2	Water flea	Experimental	48 hours	EC50	1,550 mg/l
2-Butoxyethanol	111-76-2	Green Algae	Experimental	72 hours	EC50	>1,000 mg/l
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Diatom	Experimental	72 hours	NOEC	0.08 mg/l
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Rainbow trout	Experimental	49 days	NOEC	21.5 mg/l
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Water flea	Experimental	21 days	NOEC	0.27 mg/l
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Diatom	Experimental	72 hours	EC50	0.25 mg/l
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Water flea	Experimental	48 hours	EC50	1.4 mg/l
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Bluegill	Experimental	96 hours	LC50	35.7 mg/l
Iron hydroxide oxide	20344-49-4		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Propane-1,2-diol	57-55-6	Experimental Biodegradation	28 days	BOD	90 % weight	OECD 301C - MITI test (I)
29H,31H-Phthalocyanina to(2-)-	147-14-8	Experimental Biodegradation	28 days	BOD	<1 % weight	OECD 301F - Manometric respirometry

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N29,N30,N31, N32 copper						
Mesitylene	108-67-8	Experimental Biodegradation	14 days	BOD	0 % weight	OECD 301C - MITI test (I)
2- Dimethylamino ethanol	108-01-0	Experimental Biodegradation	14 days	BOD	60.5 % weight	OECD 301C - MITI test (I)
Benzene	71-43-2	Experimental Biodegradation	28 days	BOD	63 % weight	OECD 301F - Manometric respirometry
5-Decyne-4,7- diol, 2,4,7,9- tetramethyl-	126-86-3	Experimental Biodegradation	28 days	CO2 evolution	5 % weight	OECD 301B - Modified sturm or CO2
2-methyl-2H- isothiazol-3- one	2682-20-4	Experimental Biodegradation	28 days	CO2 evolution	48 % weight	Other methods
2- Butoxyethanol	111-76-2	Experimental Biodegradation	14 days	BOD	96 % weight	OECD 301C - MITI test (I)
2-Bromo-2- nitro-1,3- propanediol	52-51-7	Experimental Biodegradation	28 days	CO2 evolution	70-80 % weight	OECD 301B - Modified sturm or CO2
1,2- Benzisothiazol- 3(2H)-one	2634-33-5	Experimental Biodegradation	28 days	BOD	0 % weight	OECD 301C - MITI test (I)
1,2,4- Trimethylbenze ne	95-63-6	Experimental Biodegradation	28 days	BOD	>60 % weight	OECD 301F - Manometric respirometry
Pyrrolo[3,4- c]pyrrole-1,4- dione, 3,6- bis[4-(1,1- dimethylethyl) phenyl]-2,5- dihydro-	84632-59-7	Estimated Biodegradation	28 days	CO2 evolution	4 % weight	OECD 301B - Modified sturm or CO2
Polychloro copper phthalocyanine	1328-53-6	Estimated Biodegradation	28 days	BOD	<1 % weight	Other methods
N- Propylbenzene	103-65-1	Estimated Biodegradation	28 days	BOD	37 % weight	OECD 301F - Manometric respirometry
Titanium dioxide	13463-67-7	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
Solvent naphtha (petroleum), light aromatic	64742-95-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Bismuth vanadium tetraoxide	14059-33-7	Data not available or insufficient for	N/A	N/A	N/A	N/A

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		classification				
Iron hydroxide oxide	20344-49-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Experimental Hydrolysis		Hydrolytic half-life	2.4 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
1,2,4-Trimethylbenzene	95-63-6	Experimental Photolysis		Photolytic half-life (in air)	11.8 hours (t 1/2)	Other methods
Mesitylene	108-67-8	Experimental Photolysis		Half-life (t 1/2)	6.7 hours (t 1/2)	Other methods
Benzene	71-43-2	Experimental Photolysis		Photolytic half-life (in air)	26 days (t 1/2)	Other methods
N-Propylbenzene	103-65-1	Experimental Photolysis		Photolytic half-life (in air)	5.17 days (t 1/2)	Other methods

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Propane-1,2-diol	57-55-6	Experimental Bioconcentration		Log Kow	-0.92	Other methods
2-Dimethylamino ethanol	108-01-0	Experimental Bioconcentration		Log Kow	-0.55	Other methods
Benzene	71-43-2	Experimental Bioconcentration		Log Kow	2.13	Other methods
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	126-86-3	Experimental Bioconcentration		Log Kow	2.8	Other methods
2-methyl-2H-isothiazol-3-one	2682-20-4	Experimental Bioconcentration		Log Kow	0.5	Other methods
2-Butoxyethanol	111-76-2	Experimental Bioconcentration		Log Kow	0.83	Other methods
2-Bromo-2-nitro-1,3-propanediol	52-51-7	Experimental Bioconcentration		Log Kow	0.22	Other methods
1,2-Benzisothiazol-3(2H)-one	2634-33-5	Experimental Bioconcentration		Log Kow	1.45	Other methods
Bismuth vanadium tetraoxide	14059-33-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Pyrrolo[3,4-	84632-59-7	Estimated		Bioaccumulatio	44	Estimated:

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c]pyrrole-1,4-dione, 3,6-bis[4-(1,1-dimethylethyl)phenyl]-2,5-dihydro-		Bioconcentration		n factor		Bioconcentration factor
Iron hydroxide oxide	20344-49-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Experimental BCF-Carp	42 days	Bioaccumulation factor	9.6	Other methods
Solvent naphtha (petroleum), light aromatic	64742-95-6	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
Diiron trioxide	1309-37-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene	95-63-6	Experimental BCF-Carp	56 days	Bioaccumulation factor	<=275	OECD 305E - Bioaccumulation flow-through fish test
Mesitylene	108-67-8	Experimental BCF-Carp	70 days	Bioaccumulation factor	342	OECD 305E - Bioaccumulation flow-through fish test
N-Propylbenzene	103-65-1	Estimated Bioconcentration		Bioaccumulation factor	79	Estimated: Bioconcentration factor
29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper	147-14-8	Experimental BCF-Carp	42 days	Bioaccumulation factor	<3.6	OECD 305E - Bioaccumulation flow-through fish test
Polychloro copper phthalocyanine	1328-53-6	Experimental BCF-Carp	42 days	Bioaccumulation factor	<74	OECD 305E - Bioaccumulation flow-through fish test

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

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13.1 Waste treatment methods

See Section 11.1 Information on toxicological effects

Incinerate uncured product in a permitted waste incineration facility. Dispose of completely cured (or polymerised) material in a permitted industrial waste facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product that has been completely cured or polymerised may be placed in a landfill properly designed for industrial waste. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

EU waste code (product as sold)

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transportation information

GR-2001-3418-1

Not hazardous for transportation

UU-0041-9439-3

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>
2-Butoxyethanol	111-76-2	Gr. 3: Not classifiable	International Agency for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1
Benzene	71-43-2	Carc. 1A	International Agency for Research on Cancer
Benzene	71-43-2	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Carbon black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Diiron trioxide	1309-37-1	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 chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.

Revision information:

Section 1: Product identification numbers information was modified.
Section 01: SAP Material Numbers information was added.
CLP: Ingredient table information was modified.
Section 2: EU VOC Directive (2004/42/EC) labelling information was added.
Section 2: Indication of danger information information was deleted.
Label: CLP Percent Unknown information was modified.
Label: CLP Precautionary - Prevention information was modified.
Label: CLP Precautionary - Response information was modified.
Label: Graphic Text information was deleted.
Label: Graphic information was deleted.
Label: Signal Word information was modified.
Section 2: Label ingredient information information was deleted.
Section 2: Label remarks information was deleted.
Section 2: R phrase reference information was deleted.
Risk phrase information was deleted.
Safety phrase information was deleted.
Section 3: Composition/ Information of ingredients table information was modified.
Section 3: Reference to H statement explanation in Section 016 information was added.
Section 3: Reference to R and H statement explanation in Section 16 information was deleted.
Section 3: Reference to section 15 for Nota info information was deleted.
Section 6: Accidental release personal information information was modified.
Section 8: Occupational exposure limit table information was modified.
Section 8: Respiratory protection - recommended respirators information was modified.
Section 9: Property description for optional properties information was added.

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Section 9: Property description for optional properties information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Aspiration Hazard Table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Health Effects - Skin information information was modified.
Photosensitisation Table information was modified.
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 modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was added.
Section 12: Material ecotoxicity information information was deleted.
Prints No Data if Bioaccumulative potential information is not present information was deleted.
Prints No Data if Component ecotoxicity information is not present information was deleted.
Prints No Data if Material ecotoxicity information is not present information was added.
Prints No Data if Persistence and Degradability information is not present information was deleted.
Section 12: Persistence and Degradability information information was added.
Section 12: Bioaccumulative potential information information was added.
Section 15: Carcinogenicity information information was modified.
Section 16: List of relevant R phrase information information was deleted.
Section 16: List of relevant R-phrases 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.

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