

SAFETY DATA SHEET

FC 3680B

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Compilation date: 01/06/2015

Revision date: 26/11/2018

Revision No: 13

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

1.1. Product identifier

Product name: FC 3680B

Product code: FC 3680B

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

Use of substance / mixture: PC1: Adhesives, sealants. PC9a: Coatings and paints, thinners, paint removers. PC9b: Fillers, putties, plasters, modelling clay. PC32: Polymer preparations and compounds. PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available ERC2: Formulation of preparations* ERC3: Formulation in materials ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

1.3. Details of the supplier of the safety data sheet

Company name: MB Fibreglass

Unit 17 & 20 Abbey Business Park

Mill Road

Newtownabbey

BT36 7EE

United Kingdom

Tel: 02890 861992

Email: sales@mbfg.co.uk

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1.4. Emergency telephone number

Emergency tel: +02890 861992
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Resp. Sens. 1: H334; STOT RE 2: H373; Acute Tox. 4: H332; Aquatic Chronic 2: H411;
Asp. Tox. 1: H304; Carc. 2: H351; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1:
H317; STOT SE 3: H335

Most important adverse effects: May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental



Signal words: Danger

Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: Wear respiratory protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P302+P352: IF ON SKIN: Wash with plenty of water.
P362+P364: Take off contaminated clothing and wash it before reuse.

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2.3. Other hazards

Other hazards: Danger of serious damage to health by prolonged exposure.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERIC REACTION PRODUCTS WITH BUTANE-1,3-DIOL, 2,4'-DIISOCYANATODIPHENYLMETHANE, 1,1'-METHYLENEBIS(4-ISOCYANATOBENZENE) HOMOPOLYMER, [(METHYLETHYLENE)BIS(OXY)]DIPROPANOL AND PROPANE-1,2-DIOL - REACH registered number(s): 01-2119486870-28

EINECS	CAS	PBT / WEL	CLP Classification	Percent
500-313-7	-	-	Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Sens. 1: H317; Carc. 2: H351; STOT SE 3: H335; STOT RE 2: H373	>50%

DIISOPROPYLNAPHTHALENE ISOMERS - REACH registered number(s): 01-2119565150-48

254-052-6	38640-62-9	-	Asp. Tox. 1: H304; Aquatic Chronic 1: H410	1-25%
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DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

-	9016-87-9	-	Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	1-25%
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DIPROPYLENEGLYCOL DIBENZOATE - REACH registered number(s): 01-2119529241-49

248-258-5	27138-31-4	-	Aquatic Chronic 3: H412	1-25%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. If outside keep bystanders upwind and away from danger point. Evacuate the area immediately.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

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Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Do not handle in a confined space.

Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERIC REACTION PRODUCTS WITH BUTANE-1,3-DIOL, 2,4'-DIISOCYANATOD

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m3 (NCO)	0.07 mg/m3 (NCO)	-	-

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

UK	0.02 mg/m3	0.07 mg/m3	-	-
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DNEL/PNEC Values

Hazardous ingredients:

4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERIC REACTION PRODUCTS WITH BUTANE-1,3-DIOL, 2,4'-DIISOCYANATOD

Type	Exposure	Value	Population	Effect
DNEL	Dermal	50 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	0.1 mg/m3	Workers	Systemic
DNEL	Dermal	28.7 mg/cm2	Workers	Local
DNEL	Inhalation	0.1 mg/m3	Workers	Local
DNEL	Inhalation (repeated dose)	0.05 mg/m3	Workers	Systemic
DNEL	Inhalation (repeated dose)	0.05 mg/m3	Workers	Local
DNEL	Dermal	25 mg/kg bw/day	Consumers	Systemic
DNEL	Inhalation	0.05 mg/m3	Consumers	Systemic
DNEL	Oral	20 mg/kg bw/day	Consumers	Systemic
DNEL	Dermal	17.2 mg/cm2	Consumers	Local

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DNEL	Inhalation	0.05 mg/m ³	Consumers	Local
DNEL	Inhalation (repeated dose)	0.025 mg/m ³	Consumers	Systemic
DNEL	Inhalation (repeated dose)	0.025 mg/m ³	Consumers	Local
PNEC	Fresh water	1 mg/l	-	-
PNEC	Marine water	0.1 mg/l	-	-
PNEC	Soil (agricultural)	1 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	1 mg/l	-	-

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

Type	Exposure	Value	Population	Effect
DNEL	Dermal	50 mg/kg/day	Workers	Systemic
DNEL	Inhalation	0.1 mg/m ³	Workers	Systemic
DNEL	Dermal	28.7 mg/m ³	Workers	Local
DNEL	Inhalation	0.1 mg/m ³	Workers	Local
DNEL	Inhalation (repeated dose)	0.05 mg/m ³	Workers	Systemic
DNEL	Dermal	25 mg/kg/day	Consumers	Systemic
DNEL	Inhalation	0.05 mg/m ³	Consumers	Systemic
DNEL	Oral	20 mg/kg/day	Consumers	Systemic
DNEL	Dermal	17.2 mg/m ³	Consumers	Local
PNEC	Marine water	0.1 mg/l	-	-
PNEC	Fresh water	1 mg/l	-	-
PNEC	Microorganisms in sewage treatment	1 mg/l	-	-
PNEC	Soil (agricultural)	1 mg/l	-	-

DIPROPYLENEGLYCOL DIBENZOATE

Type	Exposure	Value	Population	Effect
PNEC	Fresh water	0.0037 mg/l	-	-
PNEC	Marine water	0.00037 mg/l	-	-
PNEC	Aqua Intermittent	0.037 mg/l	-	-
PNEC	Fresh water sediments	1.49 mg/kg	-	-
PNEC	Marine sediments	0.149 mg/kg	-	-
PNEC	Soil	1 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	10 mg/l	-	-
DNEL	Dermal	170 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	35.08 mg/m ³	Workers	Systemic
DNEL	Dermal (repeated dose)	10 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	8.8 mg/m ³	Workers	Systemic

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DNEL	Dermal	80 mg/kg bw/day	General Population	Systemic
DNEL	Inhalation	8.7 mg/m ³	General Population	Systemic
DNEL	Oral	80 mg/kg bw/day	General Population	Systemic
DNEL	Dermal (repeated dose)	0.22 mg/kg bw/day	General Population	Systemic
DNEL	Inhalation (repeated dose)	8.69 mg/m ³	General Population	Systemic
DNEL	Oral (repeated dose)	5 mg/kg bw/day	General Population	Systemic

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: The floor of the storage room must be impermeable to prevent the escape of liquids.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Brown

Odour: Characteristic odour

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Reacts with water.

Viscosity: 150 mPas (25°C)

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

upper: No data available.

Flash point°C: No data available.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available.

Vapour pressure: No data available.

Relative density: 1.10 - 1.15

pH: No data available.

VOC g/l: No data available.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

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10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

DIISOPROPYLNAPHTHALENE ISOMERS

-	RAT	NOAEL (6 mon)	170	mg/kg/d
DERMAL	RAT	LD50	> 4000	mg/kg
DUST/MIST	RAT	1H LC50	> 5.6	mg/l
ORAL	RAT	LD50	> 4000	mg/kg

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

ORL	RAT	LD50	10000	mg/kg
SKN	RBT	LD50	>9400	mg/kg

DIPROPYLENEGLYCOL DIBENZOATE

DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	>200	mg/l
ORAL	RAT	LD50	3914	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	INH DRM	Hazardous: calculated
Carcinogenicity	--	Hazardous: calculated

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STOT-single exposure	INH	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

DIISOPROPYLNAPHTHALENE ISOMERS

ALGAE	72H EC0	0.15	mg/l
DAPHNIA	21D NOEC	0.013	mg/l
DAPHNIA	48H EC0	0.16	mg/l
DAPHNIA	48H LL50	1.7	mg/l
FISH	96H LC0	0.5	mg/l

DIPROPYLENEGLYCOL DIBENZOATE

ALGAE	72H EL50	4.9	mg/l
ALGAE	72H NOELR	1.0	mg/l
DAPHNIA	48H EL50	19.3	mg/l
FISH	96H LC50	3.7	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

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12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 05 01

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Contains: Diisopropylnaphthalene isomers)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation

[cont...]

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(EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation. H332:

Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer.

H373: May cause damage to organs ([lungs]) through prolonged or repeated exposure ([inhalation (vapour)]).

H373: May cause damage to organs through prolonged or repeated exposure.

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.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.