



M3 B - SAFETY DATA SHEET

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SAFETY DATA SHEET

M3 B

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: M3 B
(Part Number P_04446)

1.2. Relevant identified uses of the substance or mixture & Restrictions on use

Identified use: Medium for post processing paper 3D printed parts only.

Uses advised against: No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

CleanGreen3D Ltd
1, Grants Row
Lower Mount Street
Dublin 2
Email: Info@cleangreen3d.com

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Physical hazards:	Not Classified
Health hazards:	Not Classified
Environmental hazards:	Not Classified

2.2. Label elements

Risk Phrases	NC	Not classified.
Safety Phrases	NC	Not classified.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

mono propylene glycol	1-5%
CAS number: 57-55-6	EC number: 200-338-0
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC)

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

Any hazardous ingredients are below classification limit.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Inhalation: No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.

Ingestion: No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.

Skin contact: No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.

Eye contact: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.



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

General information: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: No specific symptoms known. Spray/mists may cause respiratory tract irritation.

Ingestion: No specific symptoms known. May cause discomfort if swallowed.

Skin contact: No specific symptoms known. May cause discomfort.

Eye contact: No specific symptoms known. May be slightly irritating to eyes.

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

Notes for the doctor: Treat symptomatically.

Specific treatments: No special treatment required.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion: Products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during

Firefighting:

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

No specific recommendations. For personal protection, see Section 8.

6.2. Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections

For personal protection, see Section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions:

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

Advice on general occupational hygiene:

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions:

No specific recommendations.

Storage class:

Unspecified storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.



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SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

mono propylene glycol

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

WEL = Workplace Exposure Limit

ZINC CHLORIDE

Long-term exposure limit (8-hour TWA): OES 1 mg/m³

Short-term exposure limit (15-minute): OES 2 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Appropriate engineering Controls:

No specific ventilation requirements.

Eye/face protection:

No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection:

No specific hand protection recommended.

Other skin and body protection:

No specific recommendations.

Hygiene measures:

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Respiratory protection:

No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure

Controls:

Not regarded as dangerous for the environment.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Clear liquid.
Colour :	White.
Odour:	Characteristic.
pH:	pH (concentrated solution): 9-10
Initial boiling point and range:	> 100°C @ 760 mm Hg
Vapour density:	> 1
Relative density:	1.1 @ 20°C
Solubility(ies):	Miscible with water

9.2. Other information: Not available.

SECTION 10: STABILITY&REACTIVITY

10.1. Reactivity:	There are no known reactivity hazards associated with this product.
10.2. Chemical stability:	Stable at normal ambient temperatures. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous reactions:	No potentially hazardous reactions known.
10.4. Conditions to avoid:	There are no known conditions that are likely to result in a hazardous situation.
10.5. Incompatible materials:	No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological effects:	Not regarded as a health hazard under current legislation.
<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀):	Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀):	Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀):	Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Animal data:	Based on available data the classification criteria are not met.
<u>Serious eye damage/irritation</u>	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	Based on available data the classification criteria are not met. Skin sensitisation Based on available data the classification criteria are not met.
<u>Skin sensitisation:</u>	
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro:	Based on available data the classification criteria are not met.
<u>Carcinogenicity:</u>	Based on available data the classification criteria are not met.
IARC carcinogenicity:	None of the ingredients are listed or exempt.
<u>Reproductive toxicity</u>	
Fertility:	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Development:	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	Not classified as a specific target organ toxicant after a single exposure.
<u>Specific target organ toxicity - repeated exposure</u>	Not classified as a specific target organ toxicant after repeated exposure.
<u>Aspiration hazard:</u>	Based on available data the classification criteria are not met. No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<u>General information:</u>	
<u>Inhalation:</u>	No specific symptoms known. Spray/mists may cause respiratory tract irritation.
<u>Ingestion:</u>	No specific symptoms known. May cause discomfort if swallowed.
<u>Skin contact:</u>	No specific symptoms known. May cause discomfort.
<u>Eye contact:</u>	No specific symptoms known. May be slightly irritating to eyes.
<u>Acute and chronic health hazards:</u>	No specific health hazards known.
<u>Route of entry:</u>	Ingestion Inhalation Skin and/or eye contact.
<u>Target organs:</u>	No specific target organs known.
<u>Medical symptoms:</u>	Irritation of eyes and mucous membranes.



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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not regarded as dangerous for the environment.

12.1. Toxicity: Based on available data the classification criteria are not met.

Acute toxicity – fish: Not determined.

Acute toxicity – aquatic Invertebrates: Not determined.

Acute toxicity - Microorganisms: Not determined.

12.2. Persistence and degradability: The degradability of the product is not known.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in soil: No data available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL INFORMATION

13.1. Waste treatment methods

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

General information: The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class: 08 01 12 waste paint and varnish other than those mentioned in 08 01 11

SECTION 14: TRANSPORT INFORMATION

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Rail transport notes: Not classified.

Sea transport notes: Not classified.

Air transport notes: Not classified.

14.1. UN number: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): No transport warning sign required.

14.4. Packing group: Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant: No.

14.6. Special precautions for user: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.



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SECTION 15: REGULATORY INFORMATION

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

EU legislation

Dangerous Substances Directive 67/548/EEC.
Dangerous Preparations Directive 1999/45/EC.
System of specific information relating to Dangerous Preparations.
2001/58/EC.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council
of 16 December 2008 on classification, labelling and packaging of substances
and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Risk phrases in full:

Not classified.
R22 Harmful if swallowed.
R35 Causes severe burns.

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, CleanGreen3D does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be handled with care. Although we have described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist. While the descriptions, designs, data, and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by CleanGreen3D hereunder are given gratis and CleanGreen3D assumes no obligation or liability for the description, designs, data, and information given, all such being given and accepted at your risk.

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