

# SAFETY DATA SHEET

CIM 84 Part B

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: CIM 84 Part B

Product description: Castable resin Part B

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

Common uses: Cast in motion.

Uses advised against: N/A

### 1.3 Details of the supplier of the safety data sheet

Massivit 3D Printing Technologies Ltd.

Pesakh Lev St 11, Lod, 7129361, Israel

**E-mail address of person responsible for this SDS:** [office@massivit.com](mailto:office@massivit.com)

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation):** +972-8-651-9486

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to GHS:

Skin Corr. 1B H314

STOT SE 3 H335

Skin Sens. 1 H317

Aquatic Chronic 3 H412

Classification according to 29 CFR 1910.1200 (OSHA HCS):

Skin Corr. 1B H314

STOT SE 3 H335

Skin Sens. 1 H317

Aquatic Chronic 3 H412

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Skin Corr. 1B H314

STOT SE 3 H335

Skin Sens. 1 H317

Aquatic Chronic 3 H412

See section 16 for the full text of the H-statements declared above.

### 2.2 Label elements

Labelling according to GHS:

Hazard pictogram(s):



Signal word: Danger

Hazard statement(s):

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P317: If skin irritation or rash occurs: Get medical help.

Labelling according to 29 CFR 1910.1200 (OSHA HCS)Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P317: If skin irritation or rash occurs: Get medical help.

Labelling according to Regulation 1272/2008 (CLP)Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+ P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

**2.3 Other hazard**

Not available

**SECTION 3: Composition / information on ingredients****3.2 Mixtures:**

Ingredient name	Identifiers	%	CLP Classification	GHS Classification	OSHA HCS
Fatty acids, tall-oil, reaction products with tetraethylene pentamine	CAS number: 68953-36-6 EC number: 273-201-6	15-25	Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 STOT SE 3 H335	Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 STOT SE 3 H335	Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 STOT SE 3 H335
Tetraethylene pentamine	CAS number: 112-57-2 EC number: 203-986-2	2-5	Acute Tox. 4 H302, H312 Skin Corr. 1B H314 Skin Sens. 1 H317 Aquatic Chronic 2 H411	Acute Tox. 4 H302, H312 Skin Corr. 1B H314 Skin Sens. 1 H317 Aquatic Chronic 2 H411	Acute Tox. 4 H302, H312 Skin Corr. 1B H314 Skin Sens. 1 H317 Aquatic Chronic 2 H411

See section 16 for the full text of the H-statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

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

**Eyes contact:** In case of contact with eyes, rinse immediately with plenty of soap and water for at least 15 minutes. Get medical attention.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes. Get medical attention.

**Inhalation:** Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

**Ingestion:** **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention.

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

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

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

Not available

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media**

Suitable: Foam, carbon dioxide, dry chemical, water fog.

Not suitable: N/A

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

Thermal decomposition can lead to release of irritating and toxic fumes.

In a fire or if heated, a pressure increase will occur, and the container may burst.

**5.3 Advice for firefighters**

**Special protective equipment for fire fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode. Use water spray/fog for cooling fire exposed containers.

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**SECTION 6: Accidental release measures**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

**6.2 Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

**6.4 Reference to other sections**

See Section 1 for emergency contact information.

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**SECTION 7: Handling and storage**

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**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapors, spray, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures. Avoid release to the environment.

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

**Storage:** Keep container tightly closed and properly labeled. Store in a dry, cool and well-ventilated place. Keep away from heat, direct sunlight, strong oxidizers and any incompatibles (See Section 10). Avoid water contamination.

**7.3 Specific end use(s):** N/A

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**SECTION 8: Exposure control/personal protection**

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**8.1 Control parameters**

Occupational exposure limits values: N/A

**8.2 Exposure controls**Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure such as butyl rubber, neoprene or PVC.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

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**SECTION 9: Physical and chemical properties**

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**9.1 Information on basic physical and chemical properties**

Appearance: High viscosity paste  
Odour: Mild ammonia odor  
Odour threshold: N/A  
pH: N/A  
Melting point/Freezing point: N/A  
Initial boiling point/boiling range: N/A  
Flash point: >485°F/252°C  
Evaporation rate: N/A  
Flammability: N/A  
Upper/lower flammability or explosive limits: N/A  
Vapor pressure: <10 mmHg @ 70°F/21°C  
Vapor density: >1.0 (Air=1)  
Relative density: 1.8 (H<sub>2</sub>O=1, at 4°C)  
Solubility(ies): Negligible solubility in water  
Partition coefficient Octanol/Water: N/A  
Auto-ignition temperature: N/A  
Decomposition temperature: N/A  
Viscosity: Dough  
Explosive properties: N/A  
Oxidizing properties: N/A

**9.2 Other information**

N/A

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**SECTION 10: Stability and reactivity**

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**10.1 Reactivity**

Not available

**10.2 Chemical stability**

The product is stable under normal handling and storage conditions described in Section 7.

**10.3 Possibility of hazardous reactions**

Hazardous reactions are not expected, under normal conditions of storage and use.

**10.4 Conditions to avoid**

Extreme heat, open flames, hot surfaces, sparks, ignition sources.

**10.5 Incompatible materials**

Strong bases and acids.

**10.6 Hazardous decomposition products**

Other decomposition products: not available  
In the event of fire: see section 5

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**SECTION 11: Toxicological information**

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**11.1 Information on toxicological effects**

Acute toxicity: Not available

Skin corrosion/irritation: Causes severe skin burns.

Serious eye damage/irritation: Causes severe eye damage.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

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## SECTION 12: Ecological information

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### 12.1 Toxicity

Not available

### 12.2 Persistence and Degradability

Not available

### 12.3 Bioaccumulative potential

Not available

### 12.4 Mobility in soil

Not available

### 12.5 Results of PBT and vPvB assessment

Not available

### 12.6 Endocrine disrupting properties

Not available

### 12.7 Other adverse effects

Harmful to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

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### 13.1 Waste treatment methods

#### Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

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## SECTION 14: Transport information

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### 14.1 Un number

ADR/RID: -

IMDG: -

IATA: -

DOT (US): -

### 14.2 UN proper shipping name

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

DOT (US): Not regulated

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

DOT (US): -

### 14.4 Packing group

ADR/RID: -

IMDG: -

IATA: -

DOT (US): -

**14.5 Environmental hazard**

Marine pollutant: N/A

**14.6 Special precautions for user**

N/A

**14.7 Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not available

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**SECTION 15: Regulatory information**

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This SDS complies with the following requirements of:

EU Regulation (EC) No.1907/2006 (REACH) including amendments

EU sRegulation (EC) No.1272/2008 (CLP) including amendments

29 CFR 1910.1200 (OSHA HCS)

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****California Prop. 65 Components**

To the best of our knowledge the product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA inventory**

All components of this formulation are listed in the TSCA Inventory.

**15.2 Chemical safety assessment**

Not available

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**SECTION 16: Other information**

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**Full text of Hazards Statements referred to in sections 2 and 3:**

Acute Tox.- Acute toxicity

Skin Corr.- Skin corrosion

Skin Irrit. - Skin irritation

Eye Irrit. - Eye irritation

Skin Sens. - Skin sensitization

STOT SE - Specific target organ toxicity — single exposure

Aquatic Chronic - Hazardous to the aquatic environment

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes eye irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

**Training advice:** Before using/handling the product one must read carefully present SDS.

**Key Legend Information:**

CAS- Chemical Abstract Service

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

N/A- Not available

H-statements- Hazard statements

TLV- Threshold Limit Value

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TWA- Time-weighted average  
STEL- Short-Term Exposure Limit  
CSA- Chemical safety assessment

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