PART 1: Identity of the Substance/Mixture and Company/Distributor

1.1. Identity of the Substance/Mixture

Product Name: PowerResins Wax Resin

1.2. Identified uses of the substance or mixture and uses advised against

1.2.1. Identified appropriate uses

Application of the mixture

Wax Resin is a casting application resin developed for compatibility with LCD and DLP 3D printer devices.

1.2.2. Not recommended uses

No additional information available.

1.3. Details of the supplier of the safety data sheet

Supplier

3BFAB Teknoloji A.Ş.
Ihlamurkuyu Mah. Çanakkale Cad.
Eren Plaza No: 5 Kat: 4 Ümraniye,
İstanbul / Türkiye

1.4. Emergency telephone number

Emergency Telephone
+90 216 612 00 95
+90 216 612 00 94

PART 2: Hazard Identification

2.1 Classification of Substance and Mixture

Labeling in accordance with the "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" (SEA) published in the Official Gazette dated December 11, 2013 and numbered 28848.

Acute Toxicity (Oral), Hazard Category 4	H302
Sensitization – Skin, Hazard Category 1, 1A, 1B	H317
Serious Eye Damage/Eye Irritation, Hazard Category 1	H318
Specific Target Organ Toxicity, Repeated Exposure, Hazard Category 2	H373
Harmful to the Aquatic Environment – Chronic Hazard, Category 2	H411

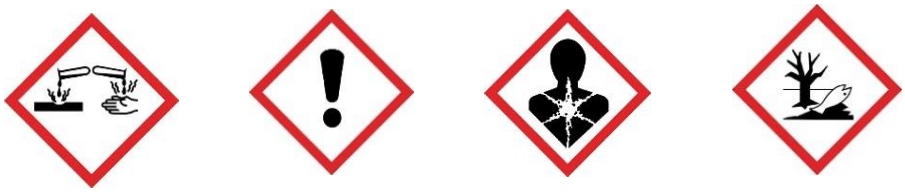
Full text of H statements: see Section 16

Harmful physicochemical effects and adverse effects on human health and the environment
Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label

Accordance with the "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" (SEA) published in the Official Gazette dated December 11, 2013 and numbered 28848.

Sign of Harmfulness:



GH05, GH07, GH08, GH09
Signal Word:
Danger
Harmfulness Statement:
H302 - Harmful if swallowed.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long-lasting effects.

Precaution:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fumes/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264 - Wash … thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment.

Intervention:
P314 - Get Medical advice/attention if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of water/…
P308+P313 - IF exposed: Call a POISON CENTER or doctor/physician.
P333+P313 - If skin irritation or a rash occurs: Get medical advice/attention.
P321 - Specific treatment (see … on this label).
P391 - Collect spillage.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P363 - Wash contaminated clothing before reuse.
P310 - Immediately call a POISON CENTER/doctor/…
Storage:
P405 - Store under lock and key..
Disposal:
P501 - Dispose of waste/container at hazardous or special waste collection points.

2.3 Other hazards
No information available.

PART 3: Information on Composition / Ingredients
3.1. Materials
Not applicable.

3.2. Mixtures
Mixture of acrylic/methacrylic resins with auxiliary substances.

Hazardous components

Aliphatic urethane dimethacrylate CAS number: 72869-86-4	%50-75
Classification Skin Sens. 1B: H317 Chronic aquatic toxicity 2: H411	
N-Acryloylmorpholine CAS number: 5117-12-4	%1-10
Classification Acute Toxicity (Oral) 4: H302 Skin Sens. 1B: H317 Serious Eye Damage/Eye Irritation, 1: H318 Specific Target Organ Toxicity, Repeated Exposure, 2: H373	
Polymerization inhibitor in acrylic acid ester	%0-5

CAS number: 7128-64-5	
Classification Serious eye damage/eye irritiation ,2 H319 Skin sensitization, 1:H317 Chronic water toxicity , 2: H411	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphinoxide CAS number: 162881-26-7	%0-5
Classification Skin sensitization, 1: H317 Chronic water toxicity ,4: H413	

Full text of the H and EUH declarations: See chapter 16.

PART 4: First Aid Measures

General information

Get medical help immediately. Show this Safety Data Sheet to medical personnel.

Skin contact

It is important to remove the substance from the skin immediately. If any sensitization symptoms develop, ensure that further exposure is avoided. Remove contamination with soap and water or a recognized skin cleansing agent. If symptoms are severe or persist after washing, seek medical attention.

Eye contact

Rinse immediately with plenty of water. Remove contact lenses and open eyelids widely. Continue rinsing for at least 10 minutes.

After swallowing

Rinse your mouth immediately and drink plenty of water. Get medical help immediately. Do not induce vomiting. In case of spontaneous vomiting, ensure that the vomit flows out unobstructed (danger of suffocation).

Protection of first aid workers

First aid personnel must wear appropriate protective equipment during any rescue operation. Wash contaminated clothing thoroughly with water or wear gloves before removing it from the affected person.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any need for urgent medical attention and special treatment

Notes for the doctor
Symptomatic treatment. It may cause sensitization or allergic reactions in sensitive people.

PART 5: Fire Fighting Measures

5.1 Fire Extinguishers

Suitable extinguishing agents
Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the substance or mixture
Non-flammable.

5.3 Recommendations for fire-fighting teams
Protective measures during fire fighting

Avoid inhalation of fire gases or vapors. Evacuate the area. Keep upwind to avoid inhalation of gases, vapors and smoke. Ventilate before entering confined spaces. If a leak or spill has not ignited, use water spray to disperse vapors and protect person stopping the leak. Avoid discharging into the water environment. Control run off water by containing it and keeping it away from sewers and waterways. If there is a risk of water pollution, notify the appropriate authorities.

Special protective equipment for firefighters

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

PART 6: Accidental Spill Precautions

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow the precautions described in this safety data sheet for safe handling. Wash thoroughly after handling a spillage. Ensure procedures and training are in place for emergency decontamination and disposal. Do not touch or walk on spilled material. Avoid contact with skin and eyes.

6.2 Environmental precautions

Avoid spillage into drains, waterways or soil. Avoid discharge into the water environment. Large Spills: Notify the relevant authorities if environmental pollution occurs (sewage, waterways, soil or air).

6.3 Methods and materials for preservation and cleaning

Clean-up methods

Wear protective clothing as described in Section 8 of this safety data sheet. Approach the spillage from downwind.
Small Spills: If the product is water soluble, dilute the spillage with water and mop up. Alternatively, or if insoluble in water, absorb the spillage with an inert, dry material and place in a suitable waste disposal container.
Large Spills: If the leak cannot be stopped, evacuate the area. Discharge spilled material to a waste treatment facility or proceed as follows. Contain and absorb the spill with sand, soil or other non-combustible material. Place waste in labeled, leak-proof containers. Thoroughly clean contaminated objects and areas in accordance with environmental regulations. Contaminated absorbent may pose the same hazard as the spilled material. Wash the contaminated area with plenty of water. Wash thoroughly after handling a spillage.
It's dangerous for the environment. Do not discharge into sewers.
Dispose of waste at: Licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4 Reference to other sections

See Section 8 for personal protection. See Section 11 for additional information on health hazards. For additional information on ecological hazards see Section 12. For waste disposal see Section 13.

PART 7: Handling and Storage

7.1 Precautions for safe use

Advice for safe handling

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

Avoid discharge into the water environment.
Do not handle until all safety precautions have been read and understood.
Do not handle broken packages without protective equipment.
Do not reuse empty containers.

Advice on general occupational hygiene

Wash skin immediately if it becomes soiled. Remove contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke while using this product. Wash at the end of each shift and before eating, smoking and using the toilet. Change work clothes every day before leaving the workplace.

7.2 Safe storage conditions, including any incompatibilities

Requirements for storage rooms and vessels

Store away from incompatible materials (see Section 10). Store in accordance with local

legislation. Store only in the original container. Keep container tightly closed in a cool, well ventilated place.
Keep containers upright. Protect containers from damage. Surround storage facilities with embankments to prevent soil and water pollution in case of spillage. The floor of the storage area should be impermeable, jointless and non-absorbent.

7.3 Specific end use(s)
Light-curing material for the manufacture of dental splints and guides.
For use by trained specialized personnel.

PART 8: Exposure Controls/Personal Protection
8.1 Control parameters
No identifying information.

8.2 Exposure controls
Protective equipment

Appropriate engineering controls
Provide adequate ventilation. Personal, workplace environmental or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should be used only if worker exposure cannot be adequately controlled by engineering control measures. Ensure that control measures are regularly inspected and maintained. Ensure that operators are trained to minimize exposure.

Eye/face protection
If a risk assessment indicates that eye contact is possible, goggles conforming to an approved standard must be worn. Personal protective equipment for eye and face protection must comply with European Standard EN166. Unless the assessment indicates that a higher degree of protection is required, the following protection must be worn: Tight-fitting safety glasses.

Hand protection
If a risk assessment indicates that skin contact is possible, chemical resistant, waterproof gloves conforming to an approved standard should be worn. The most suitable glove should be selected in consultation with the glove supplier/manufacturer who can provide information on the penetration time of the glove material. To protect hands from chemicals, gloves must comply with European Standard EN374. Check that gloves retain their protective properties during use,

taking into account the data specified by the glove manufacturer, and replace gloves as soon as any deterioration is detected. frequent changes are recommended. For up to 4 hours of exposure, use gloves made of the following material: Butyl rubber. nitrile rubber.

Other skin and body protection

If a risk assessment indicates that skin contamination is possible, suitable footwear and additional protective clothing conforming to an approved standard should be worn.

Hygiene measures

Provide eye wash station and safety shower. Contaminated work clothes should not be taken out of the workplace. Wash contaminated clothing before reuse. Clean equipment and work area daily. Good personal hygiene procedures must be practiced. Wash at the end of each shift and before eating, smoking and using the toilet. Do not eat, drink or smoke while using. Preventive industrial medical examinations must be carried out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection

If a risk assessment indicates that inhalation of contaminants is possible, respiratory protection conforming to an approved standard must be worn. Ensure that all respiratory protective equipment is suitable for its intended use and has the "CE" marking. Check that the respirator fits tightly and that the filter is changed regularly. Gas and combined filter cartridges must comply with European Standard EN14387. Full facepiece respirators with replaceable filter cartridges must comply with European Standard EN136. Half-mask and quarter-mask respirators with replaceable filter cartridges must comply with European Standard EN140.

Environmental exposure controls

Keep container tightly closed when not in use. Emissions from ventilation or work process equipment should be controlled to ensure that they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to process equipment will be necessary to reduce emissions to acceptable levels. Store in a fenced area to prevent contamination of drains and/or waterways.

PART 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid.
Color: Light blue
Odor: Odorless.
Odor threshold: No information available.
pH: No information available.
Melting point: No information available.
Initial boiling point and range: No information available.

Flash point: No information available.
Evaporation rate: No information available.
Flammability (solid, gas): No information available.
Upper/lower flammability or explosion limits: No information available.
Vapor pressure No information available.
Vapor density: No information available.
Resolution(s): No information available.
Auto-ignition temperature: The product does not self-ignite.
Decomposition Temperature: No information available.
Density: 1,1 g/cm³ (23 °C)
Viscosity: 600-700 mPa.s (Anton Paar L3 Spindle 23 °C)
Explosive properties: No information available.
Oxidizing properties: No information available.

9.2 Other information
Solid content: Not determined

PART 10: Stability and Reaction
10.1 Reaction
No dangerous reactions when used in accordance with the provisions.

10.2 Chemical Stability
The product is stable under storage at normal ambient temperatures.

10.3 Possibility of Harmful Reaction
Reacts with: strong oxidizing agents, strong alkaline or acidic materials.

10.4 Situations to avoid
Ultraviolet light and sunlight initiate the polymerization of the product. Therefore, store only in tightly closed containers, away from any light source at 5°C - 25°C.

10.5 Incompatible materials
No information available.

10.6 Harmful decomposition products
Under normal conditions of storage and use, no hazardous decomposition products should be formed.

PART 11: Toxicological Information
11.1 Information about toxic effects
Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosion

May cause skin sensitization or allergic reactions in sensitive individuals.
Causes serious eye irritation.

Sensitizing Effects

It may cause an allergic skin reaction. Contains isocyanate.

Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

STOT - single exposure

Based on available data the classification criteria are not met.

BHOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information about tests

This mixture is according to regulation (EC) No. Classified as hazardous according to 1272/2008 [CLP].

PART 12: Ecological Information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

The degradability of the product is unknown.

12.3 Bioaccumulation potential

No data available on bioaccumulation.

12.4 Mobility in soil

No data available on mobility in soil

12.5 Results of PBT and vPVB assessment

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

12.6 Other adverse effects

No supplementary information available.

PART 13: Disposal Information

13.1 Waste treatment methods

General information

Reuse or recycle products wherever possible. This material and its container must be

disposed of safely. When handling waste, the safety precautions applicable to the handling of the product must be observed. Empty containers may retain product residues and therefore be potentially hazardous.

Disposal methods
Do not discharge into the sewer. Dispose of excess products and those that cannot be recycled through a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in special containers and their contents labeled.

PART 14: Transportation Information
In accordance with ADR / RID / IMDG / IATA / ADN instructions
Land transportation (ADR/RID)
14.1 UN number: No dangerous goods within the meaning of this transport regulation.
14.2 Proper UN transport name: No dangerous goods within the meaning of this transport regulation.
14.3 Transport hazard class(es): No hazardous substance in terms of this transport regulation.
14.4 Packaging group: No hazardous substance in the sense of this transport regulation.
Maritime transportation (IMDG)
14.1 UN number: No dangerous goods within the meaning of this transport regulation.
14.2 Proper UN Transport name: No dangerous goods within the meaning of this transport regulation.
14.3 Transport hazard class(es): No hazardous substance in terms of this transport regulation.
14.4 Packaging group: No hazardous substance in the sense of this transport regulation.
Air transportation (ICAO-TI/IATA-DGR)
14.1 UN number: No dangerous goods within the meaning of this transport regulation.
14.2 Proper UN transport name: No dangerous goods within the meaning of this transport regulation.
14.3 Transport hazard class(es): No hazardous substance in terms of this transport regulation.
14.4 Packaging group: No hazardous substance in the sense of this transport regulation.
14.5 Environmental hazards: No dangerous goods within the meaning of these transport regulations.
14.6 Special precautions for the user
No hazardous substances within the meaning of these transport regulations.
14.7 Bulk transportation in accordance with Annex II of MARPOL Convention and IBC Code
Not applicable.

PART 15: Regulatory Information

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

National regulations

Health and Safety at Work etc Act 1974 (as amended). Carriage of Dangerous Goods and Use of Portable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of December 18, 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) 2015/830 of May 28, 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (as amended).

Seveso Directive - Control of major accident hazards

Not applicable.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

PART 16: Other Information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Road

Waterways.

RID European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service.

ATE: Acute Toxicity Estimate.

LC_{50}: Lethal Concentration up to 50% of a test population.

LD_{50}: Lethal Dose (Median Lethal Dose) up to 50% of a test population.

EC_{50}: 50% of the Maximum Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and abbreviations

STOT SE = Specific Target Organ Toxicity, Single exposure

Evaluation method used and used for mixtures according to Regulation (EC) No 1272/2008 [CLP]

Educational advice
Read and follow the manufacturer's recommendations. Only trained personnel should use this material.

All hazard statements
Full text of H and EUH statements:

Acute Toxicity (Oral), Hazard Category 4	H302
Sensitization – Skin, Hazard Category 1, 1A, 1B	H317
Serious Eye Damage/Eye Irritation, Hazard Category 1	H318
Specific Target Organ Toxicity, Repeated Exposure, Hazard Category 2	H373
Harmful to the Aquatic Environment – Chronic Hazard, Category 2	H411

More information
The information is based on our current level of knowledge. However, it does not guarantee product features and does not establish contractual legal rights. The buyer of our product is solely responsible for complying with applicable laws and regulations.