

MATERIAL SAFETY DATA SHEET

Issue Date 29.10.2022

Version Number 0

Review date -

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: Prevest Surgical Guide
Intended use: 3D printing resin for fabrication of surgical guide
Company Name: Prevest Denpro Limited
Address: Unit II, Export Promotion Industrial Park (EPIP), Bari Brahmana, Jammu (J&K)-181133 India
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SECTION 2 : HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 [CLP]

Skin		
Sens.	Cat. 1	H317
Aquatic		
Chronic.	Cat. 2	H411

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Hazard statements:

H411 Toxic to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.

Precautionary statements:

P264: Wash skin thoroughly after handling
P270: Do not eat, drink or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P363 Wash contaminated clothing before reuse.
P273: Avoid release to the environment.
P301+312: IF SWALLOWED: Call a poison centre or doctor/physician if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.

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

P310: Immediately call a poison centre or doctor/physician.

P314: Get medical advice/attention if you feel unwell.

P330: Rinse mouth.

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

P362+364: Take off contaminated clothing and wash it before use.

P501: Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards

No additional information available

SECTION 3 : COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substances

This product is a mixture.

3.2. Mixtures

COMPONENTS	C.A.S.	% by Wt
Methacrylate	-	(trade secret*)
Photo initiators		(trade secret*)
Pigments	-	< 1 (trade secret*)

* SDS indicates the ingredient name and/or exact percentage is being withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

After inhalation

Move the victim to fresh air. Put the victim at rest and keep warm.

After contact with the skin

After contact with the skin, wash immediately with water and soap.

After contact with the eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Call a physician immediately.

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SECTION 5: FIRE FIGHTING MEASURES

- 5.1. Extinguishing media
Suitable extinguishing media
Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO₂).
High power water jet.
- 5.2. Special hazards arising from the substance or mixture
CO_x, NO_x.

SECTION 6: ACCIDENT RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures
Wear suitable protective clothing. Provide adequate ventilation.
- 6.2. Environmental precautions
Do not allow to enter into surface water or drains.
- 6.3. Methods and material for containment and cleaning up
Take up mechanically.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling
Advice on safe handling
Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.
- 7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep the container tightly closed in a cool, well-ventilated place.
Store only in original container

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

- 8.1. Exposure Controls
Ensure adequate ventilation.
- Respiratory Protection**
Respirators are generally not needed under normal conditions of use. If this material is handled at elevated temperature, under mist forming conditions or in case of accidental release of large quantities of product use a full-face respirator or respirator cartridges as a backup to engineering controls.
- Protective Gloves**
Wear impervious gloves (nitrile) for routine handling.

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Eye and Face Protection: Chemical splash goggles or a face shield is recommended during operations where splashing could occur.

Skin Protection

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible by wearing gloves, aprons, long pants, and long sleeved shirts.

Other Controls

For operations where contact can occur a safety shower and eye wash facility should be available. Always use good personal hygiene and housekeeping practices. Wash hands thoroughly after handling.

Environmental Exposure Controls

Keep product from waterways and watersheds. This substance is not readily biodegradable and not dangerous for the environment. Avoid release into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Form	Clear Liquid
Color	Transparent clear
Odor	Fruit, ester-like odor
Odor Threshold	N/D
pH value at 20°C (68°F)	N/D

Change in condition

Melting Point/Melting Range	N/D
Flash point	N/D
Flammability (solid, gaseous)	N/D
Ignition Temperature	375 °C
Decomposition temperature	N/D
Auto igniting	N/D
Danger of explosion	N/D
Explosion limits	N/D
Lower	N/D
Upper	N/D
Vapour Pressure at 20°C (68°F):	N/D
Vapour Density	N/D
Evaporation rate	N/D
Miscibility with Water	Nearly Insoluble in Water
Partition coefficient (n-octanol/water)	N/D
Solvent content	N/D

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Viscosity, dynamic	310-380 M.P.a (25° C)
Organic solvents	N/D
Water	N/D
Solids content	N/D

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity
None known
- 10.2. Chemical Stability
Stable if handled and stored as directed.
- 10.3. Thermal decomposition/Conditions to avoid
Avoid heat, light and sources of contamination.
- 10.4. Possibility of hazardous reactions/Conditions to avoid
Heat, light, sources of contamination or inhibitor depletion may cause spontaneous polymerization generating heat and pressure.
- 10.5. Incompatible materials
Reducing and oxidizing agents, peroxides and amines.
- 10.6. Hazardous decomposition products
Thermal decomposition may release acrid smoke or fumes, carbon and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - general

Avoid release to the environment.

Acute aquatic toxicity

Not classified

Chronic aquatic toxicity

Harmful to aquatic life with long lasting effects.

12.1. Persistence and degradability

No additional information available

12.2. Bioaccumulative potential

No additional information available

12.3. Mobility in Soil

No additional information available

12.4. Results of PBT and vPvB assessment

No additional information available

12.5. Other adverse effects

Additional Information

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal recommendations

Disposal according to official regulations

SECTION 14: TRANSPORT INFORMATION

Land transport (ADG): NOT REGULATED

Air transport (ICAO-IATA / DGR): NOT REGULATED

Sea transport (IMDG-Code): NOT REGULATED

Other applicable information

No dangerous good in sense of these transport regulations.

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SECTION 15: REGULATORY INFORMATION

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

- Classification and labeling information included in section 2:
- Particular provisions : No data available

SECTION 16: OTHER INFORMATION

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

Classification	Classification procedure
Skin Sens. 1B; H317	Calculation method

Note: Not all of the following are necessarily contained in this Safety Data Sheet:

Skin Sen.	Skin Sensitisation.
Skin Irri.	Skin Irritation.
Eye Irri.	Eye Irritation.

Relevant H and EUH statements (number and full text)

H411	Toxic to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H413	May cause long lasting harmful effects to aquatic life.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

- **Department issuing MSDS:** Regulatory affairs
- **SDS Issue date:** 29.10.2022
- **Contact:** research@prevestdenpro.com

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