

1. PRODUCT & COMPANY IDENTIFICATION

- **Product Detail:**

Product name: MULTIBOND PRIME

Physical form: Liquid

Odour: Mild

Colour: Colourless

CAS No.:

- **Company Details:**

Manufacturer: Highbond Coatings Pvt Ltd

Address: Sr. No. 70/2B/1, Flat No 101 & 102,
Purushottam Villa, Vadgaon Bk,
Pune – 411041

Tel: +91 9370953995

Email: info@highbondcoatings.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture GHS

Classification:

Acute toxicity, Inhalative, Category
4 (H332)

Skin irritation, Category 2 (H315)

Eye irritation, Category 2 (H319)

Sensitization of the respiratory airways, Category 1 (H334)

Sensitization of the skin, Category 1 (H317) Carcinogenicity,
Category 2 (H351)

Specific target organ toxicity (single exposure),
Category 3 (H335)

Specific target organ toxicity (repeated exposure), Category 2
(H373)

2.2 Label elements

GHS-Labeling



Signal word **Danger**

Uncured product Hazard

statements:

H226 Flammable liquid and vapor H315

Causes skin irritation.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life

H317 May cause an allergic skin reaction.

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.

3. COMPOSITION/HAZARDOUS COMPONENTS

Chemical description: Mixtures

Chemical Name	WT %
Epoxy Resin	60-80%
Water	20-40%
Phenalkamine Hardener	40-60%
Water	40-60%

4. FIRST-AID MEASURES

General Advice: Seek medical attention if any irritation or discomfort persists.

Inhalation: Move the affected person to fresh air and keep them at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Skin Contact: Wash thoroughly with soap and water. Remove any contaminated clothing.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical, carbon dioxide, water mist.

Unsuitable Extinguishing Media: High power water jet.

Special exposure hazards arising from the substance itself, combustion products, resulting gases: Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

Protective Equipment for Firefighters: Wear self-contained breathing apparatus and full protective gear.

Additional information: Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes. Wear appropriate protective equipment. Ventilate the affected area and do not inhale the vapours.

Environmental Precautions: Do not empty into drains or the aquatic environment. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

Methods for Cleaning Up: Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations. Clean using cleansing agents. Do not use solvents.

7. HANDLING AND STORAGE

- **Handling:** Avoid contact with eyes and skin. Ensure good ventilation during processing. Wear safety shoes.
- **Storage:** Keep the container tightly closed in a cool, dry, and well-ventilated place. Store at temperatures between 5°C and 30°C. Protect from direct sunlight and frost.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- **Engineering Controls:** Ensure adequate ventilation, especially in confined areas.
- **Personal Protective Equipment:** Eye Protection: Safety glasses with side shields or goggles.
- **Skin Protection:** Protective gloves and clothing.
- **Respiratory Protection:** If ventilation is inadequate, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES	RESULT
Mixing Ratio (Resin: Hardener)	1:2 volume Basis
Surface finish	Non porous, smooth finish
Pot life @ 30°C	60 -70 minutes
Hard dry (Open to foot traffic)	24 hours
Full cure (vehicular traffic)	72 hours
Solid Content	>95%
Coverage for 100 microns Primer coat	10 sqm/Kg for clear primer @ 100 microns
Compressive Strength	>650 kg/cm ²
Flexural Strength	>450 kg/cm ²
Tensile strength	>180 kg/cm ²
Pull off Adhesion strength	Concrete failure @ 24 kg/cm ²
Abrasion resistance (Taber)	45 mg loss
Shore Hardness	D 80
Shelf Life	12 months
Chemical Resistance	Excellent resistance is observed against distilled water, detergent solutions, alkalis and acids.

10. STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Avoid extreme temperatures, direct sunlight, and contact with incompatible materials.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and other toxic fumes.

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Low toxicity under normal conditions of handling and use.
- **Skin Irritation:** May cause irritation or sensitization in sensitive individuals.
- **Eye Irritation:** May cause irritation.
- **Respiratory Sensitization:** Vapors or mist may cause respiratory irritation.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity information available.

Persistence and degradability: No further relevant information available

Bio-accumulative potential: No further relevant information available

Mobility in soil: No further relevant information available

General Notes:

Water hazard Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities

Results of PBT and vPvB assessment: Non applicable

Other adverse effects: Avoid release to the environment No further relevant information available.

13. Disposal Considerations

- **Appropriate disposal/Product Recommendation:** Do not empty into drains or the aquatic environment. This material and its container must be disposed of in a safe way.
- **Contaminated packaging Recommendation:** Cleaned containers may be recycled. Vessels not properly emptied are special waste.

13. REGULATORY INFORMATION

Safety, Health, and Environmental Regulations: Comply with all applicable local regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

14. OTHER INFORMATION

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use and determine whether they are appropriate.

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