1. PRODUCT & COMPANY IDENTIFICATION

- **Product Detail:**

Product name: BOND CLEAR PU
Physical form: Liquid
Odour: Characteristic
Colour: Transparent
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-Labelling

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	CAS No.	%
Reaction mass of ethylbenzene and m-xylene and pxylene	-	18 – 20
1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl) ethyl) carbamate	140921-24-0	13 – 14
3-isocyanatomethyl-3,5,5 trimethyl cyclohexyl isocyanate	4098-71-9	< 0,2
3-isocyanatomethyl-3,5,5-trimethyl cyclohexyl isocyanate	4098-71-9	-

4. FIRST-AID MEASURES

Take off all contaminated clothing immediately.

In case of inhalation: Supply fresh air and to be sure call for a doctor.
In case of ingestion: Do not induce vomiting. Seek medical advice immediately.
In case of skin contact: Wipe with paper towel and immediately clean with water and soap.
In case of eyes contact: Immediately flush with water, seek medical advice if necessary.
Indication of any immediate attention and special treatment needed: No further relevant information available.

5. FIRE FIGHTING MEASURES

- **Suitable extinguishing media:** Water spray, dry extinguishing media, carbon dioxide or universal foams Contaminated extinguishing water must be disposed of in accordance with local regulations
- **Unsuitable extinguishing media:** High volume water jet
- **Hazardous decomposition:** Carbon dioxide, carbon monoxide, silicone dioxide and nitrogen oxides and formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains. Product precipitate may cause Clogging.

Clean up: Take up mechanically or non-combustible absorbent material. Transfer into suitable container. To be disposed of in compliance with existing regulations.

7. HANDLING AND STORAGE

Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing vapours, fume.

Hygiene measures: Wash hands thoroughly after handling. Contaminated work clothing should not be Allowed. out of the workplace. Wash contaminated clothing before reuse.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Hand protection: Suitable materials for safety gloves (EN 374): Butyl rubber, Nitrile rubber, neoprene rubber. For prolonged or repeated exposure, gloves of class 5 or higher are recommended (breakthrough time>240min according to EN374). For short time use, gloves of class 3 or higher are recommended (breakthrough time>60min according to EN374). The thickness of gloves should be >0.35mm in order to provide adequate protection for prolonged contact with the product.

Skin and body protection: Wear suitable protective clothing. Personal protective equipment for the body and appropriate footwear should be selected depending on the task being performed and possible exposure.

Eye protection: Safety/Protective glasses.

Respiratory protection: If concentration of one or more substances present in the product exceeds the exposure limit, use respiratory protective device (refer to EN 529)

9. Physical and Chemical Properties

PROPERTY	SPECIFICATON
Viscosity	1,000
Specific weight	1.0 gr/cm3
Solids %	80-85
Flash point ℃	42
Tack free time, @77°F (25℃) & 55% RH hours	6
Recoat time hours	6-24
Service temperature	-40 to 80 ℃
Max. temperature short time	200 ℃
Hardness	40
Tensile strength at break @ 23℃	350 (35) Kg/cm2 (N/mm2)
Percent elongation @ 23 ℃	> 350 %
Water vapor transmission	0.8 gr/m2.hr
QUV Accelerated Weathering Test	Passed (3,000 hours)
Thermal resistance (100 days @ 80 °C)	Passed

10. STABILITY AND REACTIVITY

Chemical stability: Stable Under Normal Condition.
Chemical Incompatibility: water, amines and alcohol's.
Hazardous Polymerization: Will Not Occur.
Hazardous decomposition Products: fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation: Causes skin irritation.
pH: Not applicable, product is solvent-based

Serious eye damage/irritation: Causes serious eye irritation.
pH: Not applicable, product is solvent-based

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

Germ cell mutagenicity: Not classified

Additional information: Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Additional information: Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified

Additional information: Based on available data, the classification criteria are not met

STOT-single exposure: Not classified

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified

Additional information: Based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

Toxicity

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

13. REGULATORY INFORMATION

Safety, health and environmental regulation/legislation specific for the substance or mixture
The mixture classification is according to CLP Regulation 1272/2008/EC ·
Labelling according to Regulation (EC) No 1272/2008 Label elements in Section 2.2
National regulations:
Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57
It doesn't contain substances of very high concern (SVHC).
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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