



MATERIAL SAFETY DATA SHEET

Product Name: **Beger Durathane Polyurethane 2 Components**

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1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product name: **Beger Durathane Polyurethane 2 Components**

Supplier: Beger Co., Ltd.

Address: 90, 92 Buntudthong Road, Thanon Petchaburi, Ratchathawi, Bangkok 10400 Thailand.

2. COMPOSITION / INFORMATION ON INGREDIENTS

No.	Description	UN Number	CAS.No.	Symbol	Weight (%)
1	Acrylic Resin	Not Listed	Not Listed	F, Xn	>25-35
2	Xylene	Not Listed	106-42-3	Xn, Xi	>5-10
3	Butyl Acetate	1123	123-86-4	F, Xn, Xi	>5-10
4	PM Acetate	1993	108-65-6	Xn, Xi	>2-5
5	Cellosolve Acetate	1172	111-15-9	F, Xn	>2-5
6	Pigment / Extender	Not Listed	Not Listed	Xn, Xi	>20-25
7	Curing Polyurethane Resin	Not Listed	Not Disclose	Xn, Xi	>5-10

Carcinogen: None.

Legend: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, IK=No classification required, E=Explosive, O=Oxidizing, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Danger to the environment.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure

Inhalation: Slightly irritation.

Eye Contact: Direct contact with material can cause irritation.

Skin Contact: Prolonged or repeated skin contact can cause skin irritation.

4. FIRST AID MEASURES

General Advice: Avoid contact with skin and eyes.

Inhalation: Move subject to fresh air.

Skin Contact: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation.

Eye Contact: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

Ingestion: If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.



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5. FIRE FIGHTING MEASURES

Flash Point: 25 ± 2°C  
Ignition Temperature: High Temperature.  
Extinguishing Agents: Use extinguishing media appropriate for surrounding fire.  
Extinguishing Media: Dry Powder, Foam, Carbon dioxide.  
  
Personal Protective Equipment: Wear self-contained breathing apparatus (pressure-demand MSHA-NIOSH approved or equipment) and full protective gear.  
  
In Case of Fire: Formation of carbon monoxide, nitrogen oxide, and traces of hydrogen cyanide is possible.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contacts with the skin and the eyes.  
Environmental Precautions: Do not let product enter drains.  
Procedures for Cleaning up: Soak up immediately with inert absorbent material (e.g. sand, earth). Transfer liquids and solid material to separate suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Keep away from heat and source of ignition.  
General industrial hygiene practice.  
Storage: Keep containers tightly closed in a cool, well ventilated place.  
Storage Temperature: 5 – 35°C.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** An air-fed mask, or short periods of works, a combination of charcoal filter and particulate filter is recommended.

**Hand Protection:** Rubber or plastic gloves.

**Eye Protection:** Chemical splash goggles, face shield.

**Skin and Body Protection:** Light weights protective clothing.

**Hygiene Measures:** Keep away from food, drink. Wash hands before breaks and at end of work. Keep working clothes separate. Take off immediately all contaminated clothing. General industrial hygiene practice.



**HYGIENIC PRACTICES:** Good personal hygiene practices are required at all times when handling chemicals. These practices including, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and especially of contamination occurs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Liquid

**Colour:** White or according to colour card

**Odour:** Specific

**pH Value:** Not applicable

**Flash Point:** 25 ± 2°C

**Viscosity:** 100 ± 5 KU at 25°C

**Specific Gravity (Water = 1):** 1.25 to 1.35

**Initial Boiling Point:** >300°C Water

**Solubility in Water:** Insoluble

**Explosion Limits**

**Lower:** n.d.a.

**Upper:** n.d.a.

**Vapour Pressure:** n.d.a.

## 10. STABILITY AND REACTIVITY

**Hazardous Decomposition Products:** No hazardous decomposition products when stored and handled correctly.

**Hazardous Reactions:** Exothermic reaction with amines and alcohols; reacts slowly with water forming CO<sub>2</sub>, in closed containers risk of bursting owing to increase of pressure.



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11. TOXICOLOGICAL INFORMATION

Skin and mucous membrane compatibility, rabbit:

Skin 4 hours exposure – slightly irritant.

Eyes:

Non-irritant (Taste according to OECD Guidelines No.404 and No.405).

Long term contact with skin:

Tanning and irritating effects are possible.

Over-exposure, especially during spraying operations without the necessary precautions, entails the risk of concentration-dependent irritation effects on eyes, nose throat, and respiratory tract.

12. ECOLOGICAL INFORMATION

Ecological information: Do not allow to escape into water, wastewater or soil.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Solidify unexposed surplus and dispose of together with processed material as cured plastic waste-in accordance with local and national regulations.

Contaminated packing: In accordance with local and national regulations.

14. TRANSPORT INFORMATION

US DAT Hazard Class: No regulated. Not dangerous cargo. Keep dry. Slightly smell. Keep away from food-stuffs, acids and alkalis.

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**15. REGULATORY INFORMATION**

Classification and labeling in accordance with European directive on classification of hazardous preparations 88/379/EEC and its amendments and adaptations:

**Contains**

Contains isocyanates. See information supplied by the manufacturer.

The above-mentioned manufacturer's information on the handling of isocyanates is contained in the safety data sheet for the product.

Symbol(s):



R-phrases:

R43: May cause sensitization by skin contact.

R36/38: Irritating to eyes and skin.

S-phrases:

S2: Keep out of reach of children.

S28: After contact with skin, wash immediately with plenty of water.

S37/39: Wear suitable gloves and eye/face protection.

The European Committee of Paint, Printing Ink and Artists' Colours Manufacturers' Associations (CEPE) provides the following information on coatings containing isocyanates:

Ready-to-use paints containing isocyanates may have an irritant effect on mucous membranes – especially on breathing organs – and cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitization.

**16. OTHER INFORMATION**

Recommended Use: Protective Coating.

Recommended Restrictions: Use only in well-ventilated area.

This information contained herein relates only to the specific material identified. The company believes that such information is accurate and reliable as of the date of this safety data sheet, but no representation, warranty, expressed or implied, is made as to the accuracy, or completeness of the information.