

LUXATHANE 5000

Base

1. **IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

Product Name : Luxathane 5000
 Product Type : Two Pack Polyurethane
 Supplier : Berger Paints Emirates Limited
 P O Box 27524, Dubai, UAE
 Telephone Number : 009714-391000
 Emergency Telephone Number : 009714-391078

2. **COMPOSITION/INFORMATION ON INGREDIENTS :**

	<u>Weight%</u>	<u>CAS Number</u>	<u>LEL Vol%</u>	<u>ACGIH TLV-TWA</u>
• Acrylic Resin	< 40	NON / HAZ	NA	NA
• Titanium Dioxide	< 30	13463-67-7	NA	10 mg/m ³
• Iron Oxide	< 8	1309-37-1	NA	10 mg/m ³
• Black	< 1.5	1333-86-4	NA	
• Copper Phthalocyanine	< 2	147-14-8	NA	
• Copper Phthalocyanine Chlorinated	< 2	1328-53-6	NA	
• Crystalline Silica	< 15	14808-60-7	NA	0.1 mg/m ³
• Xylene	< 35	1330-20-7	1.2	100 ppm
• 2-Ethoxy Ethyl Acetate	< 6	111-15-9	1.7	5 ppm

3. **HAZARDS IDENTIFICATION :**

- hazards identification of the preparation :
 - R-10 : Flammable
 - R-20/21 Harmful by inhalation and in contact with skin
 - R-38 Irritating to skin

4. **FIRST AID MEASURES :**

- General : Remove contaminated clothing.
- First Aid - Inhalation : Remove to fresh air. If rapid recovery does not occur, obtain medical attention.
- First Aid - Skin : Remove contaminated clothing immediately. Wash skin thoroughly with soap and water.
- First Aid - Eye : Irrigate copiously with clean, fresh water for atleast 10 minutes, holding the eye lids apart and seek medical advice.
- First Aid - Ingestion : Do not induce vomiting. Obtain immediate medical attention.

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5. **FIRE FIGHTING MEASURES :**

- Specific hazards : Fire will produce dense, black smoke. Inhalation of decomposition products may cause serious health hazards.
- Extinguishing media : Water spray-mist, foam, dry chemical powder, carbon dioxide, sand.
- Unsuitable extinguishing media : Water in a jet.

6. **ACCIDENTAL RELEASE MEASURES :**

- Personal precautions : Avoid contact with skin and eyes. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. Avoid sparks.
- Personal protection : Wear PVC gloves, safety boots. Wear full face-piece respirator with organic vapour canister NPF 400. In a confined space, wear self-contained breathing apparatus open circuit type NPF 2000.
- Environmental precautions : Prevent contamination of soil and water.
- Processing for Cleaning/Collecting : Contain and collect spillage with non-combustible absorbent materials, e.g., sand, earth or spill control material and place in a container for disposal according to local regulation

7. **HANDLING AND STORAGE:**

- Avoid prolonged or repeated contact with skin. Do not breathe vapour, spray/mists. Extinguish any naked flames. Remove ignition sources. Avoid spark. Do not smoke. Take precautionary measures against static discharges.
- Handling temperature : Ambient
- Storage : Keep container tightly closed and in a well ventilated place. Keep away from direct sunlight and other sources of heat or ignition. Do not smoke in storage areas.
- Storage temperature : Ambient.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION :**

- Engineering Control measures : Use only in well ventilated areas.
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand protection : PVC gloves. Barrier creams may help to protect the exposed areas of the skin.
- Eye protection : Use safety eyewear designed to protect against splash of products.

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9. **PHYSICAL AND CHEMICAL PROPERTIES :**

Physical state	: Liquid
Odour	: Like organic solvents
<u>Safety related information :</u>	<u>Value</u>
Flash Point	23 - 29°C (Abel closed cup)
Ignition temperature	> 350°C
Initial Boiling Point	137°C (Based on Xylene)
Vapour Density (Vs. Air)	Heavier
Evaporation Rate (Vs. n-Bu. Acetate)	Slower
Density at 25°C	1.1 - 1.4 gm/cc
Solubility in water	Negligible

10. **STABILITY/REACTIVITY :**

Stability	: Stable under normal conditions.
Conditions to avoid	: Heat, flames and sparks. Caustic soda induce a vigorous polymerisation at a temperature around 200°C
Materials to avoid	: Strong Oxidising agents. Caustic Soda
Hazardous decomposition products	: Unknown

11. **TOXICOLOGICAL INFORMATION :**

Basis for assessment	: This product was not tested but the information given is based on the known toxicological data of the constituents
Acute toxicity - oral	: LD 50 expected to be > 2000 mg/kg based on Xylene
Acute toxicity - dermal	: LD 50 expected to be > 2000 mg/kg based on Xylene
Eye irritation	: The liquid splashed in the eyes may cause irritation.
Skin irritation	: Irritant

12. **ECOLOGICAL INFORMATION**

Water contamination class	: 2 (self classification)
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13. **DISPOSAL CONSIDERATIONS :**

Precautions	: Refer to Section 7
Waste disposal	: Recover or recycle if possible. Otherwise incineration.
Container disposal	: Allow the residue to dry and dispose of as scrap metal.

14. **TRANSPORT INFORMATION :**

UN Number	: 1263
IMCO Class	: 3.3
Page Number	: 3149
Marine Pollutant	: Yes
Proper shipping name	: Paint

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15. **REGULATORY INFORMATION :**

- EC Classification : Flammable, Harmful
Contains : Xylene
- EC Risk phrases :
 - R-10 : Flammable.
 - R-20/21 : Harmful by inhalation and in contact with skin
 - R-38 : Irritating to skin
- EC Safety Phrases :
 - S-24 : Avoid contact with skin
 - S-25 : Avoid contact with eyes
 - S-36/37 : Wear suitable protective clothing and gloves
 - S51 : Use only in well ventilated areas.

16. **DISCLAIMER :**

This information is based on our current knowledge and is obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding the correctness. This information is extended to describe the product for the purposes of health, safety and environmental requirements only. The conditions or methods of handling, storage, use or disposal of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage connected with the handling, storage, use or disposal of the product.

Material Safety Data Sheet

LUXATHANE 5000

Hardener

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY :

Product Name : Luxathane 5000 Hardener
 Product Type : For all shades
 Supplier : Berger Paints Emirates Limited
 P O Box 27524, Dubai, UAE.
 Telephone Number : 009714-391000
 Emergency Telephone Number : 009714-391078

2. COMPOSITION/INFORMATION ON INGREDIENTS :

	Weight%	CAS Number	LEL Vol%	ACGIH TLV-TWA
• HDI Biuret	< 75	4035-89-6		1 ppm
• Methoxypropyl Acetate	< 11	108-65-6	1.5	Not known
• Xylene	< 20	1330-20-7	1.2	100 ppm
• 2-Ethoxy Ethyl Acetate	< 10	111-15-9	1.7	5 ppm

3. HAZARDS IDENTIFICATION :

- Hazards identification of the preparation :
 - R-10 : Flammable
 - R-20/21 Harmful by inhalation and in contact with skin
 - R-36/38 Irritating to eyes and skin
 - R-43 May cause sensitization by skin contact

4. FIRST AID MEASURES :

General : Remove contaminated clothing.
 First Aid - Inhalation : Remove to fresh air. If rapid recovery does not occur, obtain medical attention.
 First Aid - Skin : Remove contaminated clothing immediately. Wash skin thoroughly with soap and water.
 First Aid - Eye : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eye lids apart and seek medical advice.
 First Aid - Ingestion : Do not induce vomiting. Obtain immediate medical attention.

5. FIRE FIGHTING MEASURES :

Specific hazards : Fire will produce dense, black smoke. Inhalation of decomposition products may cause serious health hazards.
 Extinguishing media : Water spray-mist, foam, dry chemical powder, carbon dioxide, sand.
 Unsuitable extinguishing media : Water in a jet.

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6. ACCIDENTAL RELEASE MEASURES :

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| Personal precautions | : Avoid contact with skin and eyes. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. Avoid sparks. |
| Personal protection | : Wear PVC gloves, safety boots. Wear full face-piece respiratory with organic vapour canister NPF 400. In a confined space, wear self-contained breathing apparatus open circuit type NPF 2000. |
| Environmental precautions | : Prevent contamination of soil and water. |
| Processing for Cleaning/
Collecting | : Contain and collect spillage with non-combustible absorbent materials, e.g., sand, earth or spill control material and place in a container for disposal according to local regulation. |

7. HANDLING AND STORAGE :

- Avoid prolonged or repeated contact with skin. Do not breathe vapour, spray/mist.
Extinguish any naked flames. Remove ignition sources. Avoid spark. Do not smoke.
Take precautionary measures against static discharge.
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| Handling temperature | : Ambient |
| Storage | : Keep container tightly closed and in a well ventilated place. Keep away from direct sunlight and other sources of heat or ignition. Do not smoke in storage areas. |
| Storage temperature | : Ambient. |

8. EXPOSURE CONTROL/PERSONAL PROTECTION :

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| Engineering Control measures | : Use only in well ventilated areas. |
| Respiratory protection | : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Hand protection | : PVC Gloves. Barrier creams may help to protect the exposed areas of the skin. |
| Eye protection | : Use safety eyewear designed to protect against splash of products. |

9. PHYSICAL AND CHEMICAL PROPERTIES :

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|--------------------------------------|-------------------------------|
| Physical state | : Liquid |
| Odour | : Aromatic |
| <u>Safety related information</u> | <u>Value</u> |
| Flash Point | : 23 - 29°C (Abel closed cup) |
| Ignition temperature | : > 310°C |
| Initial Boiling Point | : 137°C (Based on Xylene) |
| Vapour Density (Vs. Air) | : Heavier |
| Evaporation Rate (Vs. n-Bu. Acetate) | : Slower |
| Density at 25°C | : 0.85 - 0.95 |
| Solubility in water | : Partly miscible |

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10. STABILITY/REACTIVITY :

Stability	: Stable under normal conditions.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Alcohols, Amines, Bases, Water and aqueous solution. With a great release of CO ₂ , and hence a risk of a pressure build-up in confined areas.
Hazardous decomposition products	: On combustion or on thermal decomposition (pyrolysis) releases toxic gases e.g., Carbon Oxides (CO+CO ₂) Nitrogen Oxides

11. TOXICOLOGICAL INFORMATION :

Basis for assessment	: This product was not tested but the information given is based on the known toxicological data of the constituents
Acute toxicity - Oral	: LD 50 > 2000 mg/kg based on Xylene; LD 50 > 5000 mg/kg based on HDI biuret
Acute dermal irritation	: LD 50 > 2000 mg/kg based on Xylene
Acute toxicity - inhalation	: Harmful
Eye irritation	: Harmful
Skin irritation	: Harmful
Local effects	: At high concentrations, the vapour can be irritating to the respiratory system Repeated or prolonged contact may cause slight irritation to the skin. May cause irritation to the eyes.
Sensitization	: May cause respiratory sensitization (asthma) on prolonged or repeated exposure to people who are sensitized to, or have already been sensitised to, the product.

12. ECOLOGICAL INFORMATION :

Water contamination class	: Avoid water contamination.
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13. DISPOSAL CONSIDERATIONS :

Precautions	: Refer to Section 7
Waste disposal	: Recover or recycle if possible. Otherwise incineration.
Container disposal	: Allow the residue to dry and dispose of as scrap metal.

14. TRANSPORT INFORMATION :

UN Number	: 1263
IMCO Class	: 3.3
Page Number	: 3149
Marine Pollutant	: Yes
Proper shipping name	: Paint

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15. **REGULATORY INFORMATION :**

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|---------------------|--|
| EC Classification | : Flammable, Harmful. |
| Contains | : Xylene, HDI biuret. |
| • EC Risk phrases | |
| R-10 | : Flammable |
| R-20/21 | : Harmful by inhalation and in contact with skin |
| R-36/38 | : Irritating to eyes and skin |
| R-43 | : May cause sensitisation by skin contact |
| • EC Safety Phrases | |
| S-7/8 | : Keep container tightly closed and dry |
| S-24/25 | : Avoid contact with skin and eyes. |
| S-36/37/39 | : Wear suitable protective clothing, gloves and eyes and face protector. |

16. **DISCLAIMER :**

This information is based on our current knowledge and is obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding the correctness. This information is extended to describe the product for the purposes of health, safety and environmental requirements only. The conditions or methods of handling, storage, use or disposal of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage connected with the handling, storage, use or disposal of the product.