

# Material Safety Data Sheet

## 1. Identification of the Substance / Mixture and of the Company

- 1.1 PRODUCT IDENTIFICATION  
Deck Polyurea FFP Part A
- 1.2 PRODUCT USE  
Waterproofing and protection of concrete
- 1.3 COMPANY IDENTIFICATION  
Jaisons Engineering Technologies  
Gat. No. 322/C, Plot No. 2  
Vishwachaya Industrial Area  
Pirangut, Pune – 412115  
India  
Tel: +91 20 2544 9985  
E-mail: factory@jaisonsgroup.com  
Web: constructions.jaisonsgroup.com
- 1.4 EMERGENCY TELEPHONE NUMBERS  
During normal Pacific Standard Time (PST)  
+91 20 2544 9985  
All other times, and in times of unavailability, contact your local emergency services.

## 2. Hazards Identification

- 2.1 Mixture Classification according to the directive 1999/45  
Contains Isocyanate Contains Toluene diisocyanate
- Phrases R R42 : May cause sensitization by inhalation
- Phrases S S2 : Keep out of the reach of children ;  
S23 : Do not breath vapor;  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- Other hazards May result in light irritation by contact skin and eye contact.
- 2.2 LABEL ELEMENTS: in Accordance with GHS (5th Edition)



## 3. Composition / Information on Ingredients

<b>Names</b>	<b>Risk Phrases</b>	<b>CAS No.</b>	<b>Content %</b>
Polyurethane prepolymer	Eye Irrit. 2, H319; Skin Sens. 1, H317	9057-91-4	80% - 100%

#### **4. First Aid Measures**

##### **4.1 DESCRIPTION OF FIRST AID MEASURES**

**General information** Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 4-8 hours after the accident. Do not leave affected persons unattended. Personal protection for the First Aider. Take affected persons out of danger area and lay down

**After inhalation** In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

**After skin contact** Immediately wash with water and soap and rinse thoroughly. Seek medical treatment in case of complaints.

**After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Protect unharmed eye.

**After swallowing** If symptoms persist consult doctor

##### **4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

No further relevant information available.

##### **4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No further relevant information available.

#### **5. Firefighting Measures**

##### **5.1 EXTINGUISHING MEDIA**

**Suitable extinguishing agents** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents** Water with full jet

5.2	<p><b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</b></p> <p>Carbon monoxide (CO) Hydrogen cyanide (HCN) Nitrogen oxides (NO<sub>x</sub>) During heating or in case of fire poisonous gases are produced.</p>
5.3	<p><b>ADVICE FOR FIREFIGHTERS</b></p> <p>Do not inhale explosion gases or combustion gases</p>
Additional information	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
<b>6.</b>	<b>Accidental Release Measures</b>
6.1	<p><b>PERSONAL PROTECTIVE MEASURES</b></p> <p>Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources.</p>
6.2	<p><b>ENVIRONMENT PROTECTION MEASURES</b></p> <p>Inform respective authorities in case of seepage in to water course or sewage system. Prevent from spreading (e.g. by damming-in or oil barriers). Do not allow to enter sewers/ surface or ground water.</p>
6.3	<p><b>METHODS FOR CLEANING UP</b></p> <p>Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). The polyurethane can be neutralized by some water (or mix water + ethanol). Attention this reaction release some gas (CO<sub>2</sub>). Never store a container closed hermetically containing some water and the polyurethane.</p>
<b>7.</b>	<b>Handling &amp; Storage</b>
7.1	<p><b>PRECAUTIONS FOR SAFE HANDLING</b></p> <p>Store in cool, dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.</p>
Information about fire - and explosion protection	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
7.2	<b>STORAGE</b>
Requirements to be met by storerooms and receptacles	Store only in the original receptacle.
Information about storage in one common storage	Store away from foodstuffs.

facility

Further information about storage conditions  
Protect from frost.  
Store in dry conditions.  
Keep container tightly sealed.  
Recommended storage temperature: 10-30 °C

7.3 SPECIFIC END USE(S)  
No further relevant information available.

## 8. Exposure Control / Personal Protection

General protective and hygienic measures  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

Respiratory protection  
When used properly and under normal conditions, breathing protection is not required.  
Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands  
Check protective gloves prior to each use for their proper condition.  
Only use chemical-protective gloves with CE-labeling of category III.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Eye protection  
Use tightly sealed protective goggles

## 9. Physical & Chemical Properties

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance  
Clear yellow viscous liquid

Odour  
Ester like

pH  
Not determined

Initial Boiling Point  
Not determined

Flash Point  
132 °C

Flammability  
Not applicable

Auto-ignition Temperature  
Product is not self igniting

Explosive Properties  
Product is not explosive. However, formation of explosive air/vapour mixtures are possible

Water Solubility  
Not miscible or difficult to mix

Specific gravity  
1.04

Boiling point  
None (polymeric resin)

Freezing point	None (polymeric resin)
Solvent content (VOC)	Nil
Viscosity	50 Poise

## 10. Stability & Reactivity

### 10.1 STABILITY

Stable under normal temperatures and pressures.

### 10.2 THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED

The product does not decompose if it is used according to the prescriptions.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Reaction with : water ; alcohols; amines; release of carbonic gas. In the closed bowls, the risk of explosion further to an overpressure.

### 10.4 CONDITIONS TO AVOID

Avoid contamination with water and other materials that react with Isocyanates

### 10.5 INCOMPATIBLE MATERIALS

Acids / bases and strong oxidizers.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

TDI vapors, hydrogen cyanide gas, oxides of nitrogen, carbon monoxide and carbon dioxide

## 11. Toxicological Information

No information is available for this product. The information below is based on profiles of compositionally similar materials.

Acute Oral Toxicity : LD50 rat > 5,000 mg/kg

Acute Dermal Toxicity : LD50 Rabbit > 5,000 mg/kg

Skin Irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation

Respiratory or skin sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction

CMR effects Based on available data, the classification criteria are not met.

## 12. Ecological Information

Ecotoxicological effects Harmful to fish

General notes Harmful to aquatic organisms Water hazard class 2 (Self-assessment): hazardous for water.

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

**13.**

**Disposal Considerations**

Waste treatment methods

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Disposal according to official regulations.  
Do not throw back to the sewer or in the natural environment  
Deliver the waste to a company specialized in waste collection

Elimination of the soiled packagings

Deliver the soiled packaging to a company specialized in waste collection

**14.**

**Transportation Information**

Class

Flammable liquids.

Label



**15.**

**Regulatory Information**

Xn Harmful

Phrases R

R42 : May cause sensitization by inhalation

Phrases S

S2 : Keep out of the reach of children

S23 : Do not breath vapor

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**16.**

**Other Information**

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. The details of this data sheet must be passed on to all personnel handling the product. Please consult the Technical Data Sheet prior to any use and processing.

# Material Safety Data Sheet

## 1. Identification of the Substance / Mixture and of the Company

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Deck Polyurea FFP Part B
- 1.2 PRODUCT USE  
Waterproofing and protection of concrete
- 1.3 COMPANY IDENTIFICATION  
Jaisons Engineering Technologies  
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Vishwachaya Industrial Area  
Pirangut, Pune – 412115  
India  
Tel: +91 20 2544 9985  
E-mail: [factory@jaisonsgroup.com](mailto:factory@jaisonsgroup.com)  
Web: [constructions.jaisonsgroup.com](http://constructions.jaisonsgroup.com)
- 1.4 EMERGENCY TELEPHONE NUMBERS  
During normal Pacific Standard Time (PST)  
+91 20 2544 9985  
All other times, and in times of unavailability, contact your local emergency services.

## 2. Hazards Identification

- 2.1 Mixture Classification according to Regulation (EC) No 1272/2008
- Acute Tox. 4 H302 Harmful if swallowed.
- Acute Tox. 4 H312 Harmful in contact with skin.
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- 2.2 LABEL ELEMENTS: in Accordance with GHS (5th Edition)



### 3. Composition / Information on Ingredients

Names	Risk Phrases	CAS No.	Content %
1,3 Benzenediamine, 4-methyl - 2,6 - bis (methylthio)	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	102093-68-5	15% - 40%

### 4. First Aid Measures

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

General information	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 4-8 hours after the accident. Do not leave affected persons unattended. Personal protection for the First Aider. Take affected persons out of danger area and lay down
After inhalation	In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.
After skin contact	Immediately wash with water and soap and rinse thoroughly. Seek medical treatment in case of complaints.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Protect unharmed eye.
After swallowing	If symptoms persist consult doctor

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No further relevant information available.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No further relevant information available.

### 5. Firefighting Measures

#### 5.1 EXTINGUISHING MEDIA

Suitable extinguishing agents	CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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	Use fire extinguishing methods suitable to surrounding conditions.
5.2	<b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</b> No further relevant information available.
5.3	<b>ADVICE FOR FIREFIGHTERS</b> Do not inhale explosion gases or combustion gases
Additional information	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
<b>6.</b>	<b>Accidental Release Measures</b>
6.1	<b>PERSONAL PROTECTIVE MEASURES</b> Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources.
6.2	<b>ENVIRONMENT PROTECTION MEASURES</b> Inform respective authorities in case of seepage in to water course or sewage system. Prevent from spreading (e.g. by damming-in or oil barriers). Do not allow to enter sewers/ surface or ground water.
6.3	<b>METHODS FOR CLEANING UP</b> Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). The polyurethane can be neutralized by some water (or mix water + ethanol). Attention this reaction release some gas (CO <sub>2</sub> ). Never store a container closed hermetically containing some water and the polyurethane.
<b>7.</b>	<b>Handling &amp; Storage</b>
7.1	<b>PRECAUTIONS FOR SAFE HANDLING</b> Store in cool, dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Information about fire - and explosion protection	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
7.2	<b>STORAGE</b>
Requirements to be met by storerooms and receptacles	Store only in the original receptacle.
Information about storage in one common storage facility	Store away from foodstuffs.

Further information about storage conditions  
Protect from frost.  
Store in dry conditions.  
Keep container tightly sealed.  
Recommended storage temperature: 10-30 °C

7.3 SPECIFIC END USE(S)  
No further relevant information available.

## 8. Exposure Control / Personal Protection

General protective and hygienic measures  
The usual precautionary measures are to be adhered to when handling chemicals.  
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When used properly and under normal conditions, breathing protection is not required.  
Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands  
Check protective gloves prior to each use for their proper condition.  
Only use chemical-protective gloves with CE-labeling of category III.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Eye protection  
Use tightly sealed protective goggles

## 9. Physical & Chemical Properties

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance  
Clear yellow viscous liquid

Odour  
Aromatic

pH  
>8

Boiling Point  
>200°C

Flash Point  
>100 °C

Flammability  
Not applicable

Ignition Temperature  
>380°C

Explosive Properties  
Product is not explosive.

Water Solubility  
Not miscible or difficult to mix

Specific gravity  
1.8

Solvent content (VOC)  
Nil

Viscosity  
20 Poise

**10. Stability & Reactivity**

10.1 STABILITY

Stable under normal temperatures and pressures.

10.2 THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED

The product does not decompose if it is used according to the prescriptions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known.

10.4 CONDITIONS TO AVOID

No further relevant information available.

10.5 INCOMPATIBLE MATERIALS

No further relevant information available.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No dangerous decomposition products known.

**11. Toxicological Information**

No information is available for this product. The information below is based on profiles of compositionally similar materials.

Acute Oral Toxicity : LD50 rat > 1,000 mg/kg

Acute Dermal Toxicity : LD50 Rabbit > 2,000 mg/kg

Skin Irritation Causes severe skin burns.

Serious eye damage/irritation Causes serious eye irritation

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May cause an allergic skin reaction

CMR effects Based on available data, the classification criteria are not met.

**12. Ecological Information**

Ecotoxicological effects Harmful to fish

General notes Harmful to aquatic organisms Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground

**13. Disposal Considerations**

Waste treatment methods Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal according to official regulations.

Do not throw back to the sewer or in the natural environment

Deliver the waste to a company specialized in waste collection

Elimination of the soiled packagings

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**14.**

**Transportation Information**

Class

8 Corrosive substances

Label



**15.**

**Regulatory Information**

Xn Harmful

Phrases R

R42 : May cause sensitization by inhalation

Phrases S

S2 : Keep out of the reach of children

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