

## MATERIAL SAFETY DATA SHEET

### Product Name: FRP Manhole Cover, Grating and Recessed Cover

**Composition:** The FRP manhole cover is made from a mixture of fiberglass, resin, and other additives. The individual components of the FRP manhole cover are listed below:

#### Fiberglass:

CAS No.: 65997-17-3

Chemical formula: N/A

Percentage: >70%

#### Resin:

CAS No.: 9003-36-5

Chemical formula: (C<sub>2</sub>H<sub>3</sub>Cl)<sub>n</sub>

Percentage: <30%

#### Other Additives:

CAS No.: Mixtures of several chemicals

Chemical formula: N/A

Percentage: <5%

#### Physical and Chemical Properties:

Appearance: Rectangular, round or square manhole cover

Weight: 10-100 kg

Density: 1.5-2 g/cm<sup>3</sup>

Melting Point: Not applicable

Flash Point: Not applicable

Boiling Point: Not applicable

pH: Not applicable

Water Solubility: Not soluble in water

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Odor: None

#### Hazards Identification:

The FRP manhole cover is considered to be a relatively safe product. However, when it is heated to high temperatures, it can release hazardous fumes which can be harmful to health. In addition, when the FRP manhole cover is cut, it can produce fine fibers which can cause irritation to the skin, eyes, and respiratory system. Therefore, users are advised to wear protective equipment such as gloves, goggles, and masks when handling the product.

#### Fire and Explosion Hazards:

The FRP manhole cover is not considered to be a combustible material. However, if it is exposed to high temperatures, it can release hazardous fumes which can cause a fire. If the product is cut or drilled, it can produce fine fibers which can ignite when exposed to a heat source.



### **Health Hazards:**

**Inhalation:** When inhaled in large quantities, the fine fibers produced when the FRP manhole cover is cut can irritate the lungs and cause respiratory issues. If inhaled chronically, they may lead to other respiratory issues such as lung cancer.

**Skin Contact:** Fine fibers produced when the FRP manhole cover is cut or drilled can cause skin irritation.

**Eye Contact:** Fine fibers produced when the FRP manhole cover is cut or drilled can cause irritation and damage to eyes.

**Ingestion:** The FRP manhole cover is not considered to be toxic if ingested.

### **Environmental Hazards:**

The FRP manhole cover does not cause any immediate concern to the environment.

#### **First Aid Measures:**

**Inhalation:** If large amounts are inhaled, move to fresh air and seek medical attention immediately.

**Skin Contact:** Do not rub the affected area. Rinse gently with plenty of water.

**Eye Contact:** Immediately flush the eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** Rinse the mouth thoroughly with water. Drink plenty of water and seek medical attention if necessary.

### **Firefighting Measures:**

The FRP manhole cover does not cause any immediate concern for firefighters. However, if the product is exposed to high temperatures, it can release hazardous fumes which can cause a fire. Firefighters should wear proper protective equipment such as masks and gloves when dealing with this product.

### **Handling and Storage:**

The FRP manhole cover should be stored in a dry and cool area. This product should be handled according to proper safety procedures, which include wearing protective clothing such as gloves, goggles, and masks when handling the product.

### **Exposure Controls/Personal Protection:**

Exposure limits for the individual components of the FRP manhole cover are not available. Therefore, employees should wear personal protective equipment such as gloves, goggles, and masks when handling the product.

### **Conclusion:**

The FRP manhole cover is considered to be a safe product if handled properly. However, it is not without its potential hazards such as the release of hazardous fumes when exposed to high temperatures and the production of fine fibers when cut or drilled. Adequate protective measures should be taken when handling this product. This data sheet should be read by everyone who comes into contact with this product to ensure safe handling and working conditions.

## **दुद्धी इण्डस्ट्रीज प्राइवेट लिमिटेड**

F-238,239, प्रथम तल, टावर - बी, पालम कॉरपोरेट प्लाजा, ब्लॉक -C2 पालम विहार, गुरुग्राम - 122 001 (हरियाणा)  
☎ 0124-4830680, 9560393000, 9560393009 ✉ info@dudhi.in 🌐 www.dudhi.in

फैक्टरी I : M.No.- 56/4, Chak 6PRM, पुगल रोड, दनतोर, तहसील - खाजुवाला, जिला - बीकानेर - 334004 (राजस्थान)  
फैक्टरी II : खसरा नं. - 60, नौरंगपुर - सिलाना रोड, गाँव - सिलाना, तहसील - झज्जर, जिला - झज्जर - 124103 (हरियाणा)