

## Material Safety Data Sheet

### 1. Product identification

1.1 Product Name: PE Geomembrane.

1.2 Chemical Family: POLYETHYLENE

1.3 Formula :  $-(CH_2 - CH_2)_n-$

1.4 Manufacturer & Supplier:

**Office & Factory:**

2nd Industrial area, Street No: 117

P.O box 14164 – Dammam 31424 , Saudi Arabia

Tel: +966 3 8121360 Fax: +966 3 8121360 Ext: 8259

Email: info@rowadplastic.com

www.rowadgeo.com / www.rowadplastic.com

**Further information obtainable from:**

Rowad Laboratory

[asad@rowadplastic.com](mailto:asad@rowadplastic.com)

[qcgeo@rowadplastic.com](mailto:qcgeo@rowadplastic.com)

**Emergency telephone number:**

Tel: +966 3 8121360 Ext: 8232

### 2. Hazard Identification

2.1 Health Effect - No adverse health effects expected

### 3. Composition/ Information on ingredients

Chemical characterization: Mixture

**Description:**

PE geomembrane manufactured from following Polyethylene resin, carbon black & Antioxidant. Does not contain any hazardous ingredients.

Components	Amount	Classification	CAS #
Hexane/Butene based Ethylene polymer	≥95.5%	Not Classified	25213-02-9
Carbon Black	2.0 -3.0 %	Not Classified	1333-86-4
Additives	1.0 – 1.50%	Not Classified	6683-19-8/31570-04-4 71878-19-8

## 4. Fire & Explosion:

### 4.1 Chemical Reactivity

4.1.1 Oxidizing Agent – At elevated temperature, will react with strong oxidizing agent

4.1.2 Acids - At elevated temperature, will react with strong acid

4.1.3 Alkali - No reaction

4.2 Salt or Fresh water - No Reaction

4.3 Air - No Reaction

4.4 Special Fire Fighting Procedure – Firefighters must use self –contained breathing Apparatus

## 5. Handling & Storage

### 5.1 Precaution for safe handling:

5.1.1 Ensure proper handling equipment & Sling belt.

5.1.2 Conveying & handling system should be safe enough for the normal weight of our product.

### 5.2 Precaution for safe Storage:

5.2.1 Storing the Smooth Polyethylene geomembrane 4 rolls in height.

5.2.2 Storing the Single Textured/Double Textured Polyethylene geomembrane 3 rolls in height

## 6. Physical and Chemical data:

- 3.1. Status : Solid
- 3.2. Vicat Softening Point (°C) : 100-130°C
- 3.3. Boiling Point (°C) : Not applicable

3.4 Vapor Pressure (KPa)	: Not applicable.
3.5 Solubility In water (g/l)	: Nil
3.6 Freezing Point (°C)	: Not applicable.
3.7 Evaporating Rate	: Not applicable.
3.8 Viscosity	: Not applicable.
3.9 Specific Gravity	: >0.94 g/cc for HDPE 0.939 max. for LLDPE
3.10 pH Value	: Not applicable.
3.11 Appearance and Odor	: Black, White or colored, Odorless
3.12 Volatile Matter	: Not applicable

## 7. Toxicological Information:

Rowad HDPE Geomembrane liner is non-hazardous, nontoxic & chemically inert.

### Revision History:

Revision No.	Date	Description of Changes
00	30/08/2012	First Issue
01	03/06/2015	Revised all section

This MSDS summarizes at the date of issue our best knowledge of the health & safety hazard of the product, & in particular how to safely handle & use the product in the workplace.

Since Rowad can not anticipate or control the conditions under which the product may be used, each user must prior to usage, review this MSDS in the context of how the user intends to handle & use the product in the workplace.