

REEF INDUSTRIES INC  
MATERIAL SAFETY DATA SHEET  
PERMALON X210 G

---

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

---

**Product Name:** Permalon X210G  
**Product Description:** Reinforced Flexible Plastic Sheeting  
**Manufacturer/Supplier:** Reef Industries Inc. 9209 Almeda Genoa Road Houston, TX 77075  
**Phone Number:** (800) 231-6074 (Monday – Friday 8:00 am to 5:00 pm)  
**24 Hr Number:** 713 507-4349  
**Revision Date:** 6 June 2011  
**MSDS Date:** 20 July 2006

Safety Data Sheet according to OSHA's Hazcom Standard (29 CFR 1910.1200)

---

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

---

Polyethylene/polyolefin films with Geotextile backing

Component Name	CAS#/Codes
Linear Low Density Polyethylene	25087-34-7
Low Density Polyethylene	24937-78-8
Polypropylene	9003-07-0
High Density Polyethylene	9002-88-4

---

## 3. HAZARDS IDENTIFICATION

---

**Emergency Overview** Plastic films with polyester reinforced. Not considered Hazardous

### Potential Health Effects

**Eyes;** May cause irritation if exposed to fumes from burning material

**Skin:** No adverse affects to skin under normal ambient conditions. If heated to elevated temperatures, contact may cause thermal burns.

**Ingestion:** Not likely to be ingested in present form. Very low toxicity if particles are swallowed, may cause choking.

**Inhalation:** Vapors/fumes released during high heat or burning of product may cause respiratory irritation. Should not breathe fumes if this occurs. Product is not intended for high heat applications, product cannot be inhaled in solid state at ambient temperature.

Acute Health Hazards: None. Does not apply.

---

## 4. FIRST AID MEASURES

---

### Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

### Skin

If molten material comes in contact with skin, cool under ice water or running stream of water. Do not attempt to remove the material from the skin as this may result in severe tissue damage. Seek medical attention immediately.

REEF INDUSTRIES INC  
MATERIAL SAFETY DATA SHEET  
PERMALON X210 G

**Ingestion**

If swallowed seek medical attention. May cause gastrointestinal blockage. Obtain medical attention immediately.

**Inhalation**

Remove person to fresh air if fumes are inhaled from burning product. Seek medical attention if symptoms persist.

**Advice to Physicians**

Treat symptomatically.

---

**5. FIRE -FIGHTING MEASURES**

---

**Flammable limits in Air, UPPER: Not Applicable**  
**(% By Volume) LOWER: Not applicable**

**Flash Point: Not Available**

**Autoignition Temperature: Not Available**

**Extinguishing Media:** Water spray, carbon dioxide and dry chemical.

**Unusual Fire and Explosion Hazard:** Hydrocarbon oxidation products including CO and CO2 can be formed during combustion.

**Hazardous Decomposition Products: Not Applicable.**

---

**6. ACCIDENTAL RELEASE MEASURES**

---

**ACCIDENTAL RELEASE MEASURES Not Applicable.**

---

**7. HANDLING AND STORAGE**

---

Use safe handling practices to avoid physical Injury

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**Engineering Controls: Not applicable**

**Ventilation: Not Applicable**

**Respiratory Protection: Not applicable**

**Eye Protection: Not applicable**

**Skin Protection: Not applicable**

**Exposure Guidelines Not applicable.**

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

**Physical State:** Polyethylene films with felt backing

**Color:** Black film and tan fabric.

**Odor:** typical polyethylene odor

**PH:** Not applicable

REEF INDUSTRIES INC  
MATERIAL SAFETY DATA SHEET  
PERMALON X210 G

**Specific Gravity:** .895 - .965  
**Boiling Range/Point (°C/F):** Not applicable  
**Melting Point (°C/F):** 90-135 °C  
**Flash Point (PMCC) (°C/F):** Not known  
**Vapor Pressure:** Not applicable  
**Vapor Density: (Air=1)** Not applicable  
**Solubility in Water:** Nil, Insoluble

---

## 10. STABILITY AND REACTIVITY

---

### Stability

Stable under normal conditions.

### Conditions to Avoid

-Heat -High temperatures

### Materials to Avoid

None known

### Hazardous Decomposition Products

Hydrocarbon oxidation products - oxides of carbon - hydrocarbons - aldehydes - oligomers- smoke - acrid fumes.

---

## 11. TOXICOLOGICAL INFORMATION

---

**Toxicological Information:** No information available.

---

## 12. ECOLOGICAL INFORMATION

---

**Ecological Information:** Not Applicable.

---

## 13. DISPOSAL CONSIDERATIONS

---

Dispose of in accordance with all applicable local and national regulations.

---

## 14. TRANSPORT INFORMATION

---

DOT CFR 172.101 Data  
Transportation (IATA)  
Not Regulated

---

## 15. REGULATORY INFORMATION

---

### NFPA Ratings

NFPA Code for Flammability -1  
NFPA Code for Health -0  
NFPA Code for Reactivity -0  
NFPA Code for Special Hazards - 0

WHMIS Class: Not Regulated - Manufactured Article

REEF INDUSTRIES INC  
MATERIAL SAFETY DATA SHEET  
PERMALON X210 G

---

## 16. OTHER INFORMATION

---

### Abbreviations

N/A: Denotes no applicable information found or available  
CAS#: Chemical Abstracts Service Number  
ACGIH: American Conference of Governmental Industrial Hygienists  
OSHA: Occupational Safety and Health Administration  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
NTP: National Toxicology Program  
IARC: International Agency for Research on Cancer

The information and recommendations presented in this MSDS are based on sources believed to be accurate. Reef Industries Incorporation assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.