

## Material Safety Data Sheet

### 1. Product and company identification

**Product Name:** : ZeroPerm  
**Material uses** : Refer to the product technical data sheet  
**Supplier/Manufacturer** : Polyguard Products, Inc.  
3801 South I-45  
Ennis, TX 75119  
Tel: (800) 541-4994 ( am to 5 pm CST week days)  
**In case of emergency** CHEMTREC, US: +1-800-424-9300 International: +1-703-527-3887

### 2. Hazards identification

**Physical state** : Solid  
**Odor** : None  
**OSHA/HCS status** : This product is defined as an “article” per the US Code of Federal Regulations (29 CFR 1910.1200 (b)) and the REACH Regulation (EC) No. 1907/2006 article 3 (3). As such, it will not result in exposure to a hazardous chemical under normal use.  
**Emergency Overview** : CAUTION!  
MAY CAUSE SKIN IRRITATION IN SOME INDIVIDUALS.  
Slightly irritating to the skin. Avoid exposure –obtain special instructions before use.  
Wash thoroughly after handling.  
**Potential acute health affects**  
**Inhalation** : Slightly irritating to respiratory system if product is heated to a molten state  
**Ingestion** : No known significant effects or critical hazards.  
**Skin** : Slightly irritating to the skin.  
**Eyes** : No known significant effects or critical hazards.  
**Potential chronic effects**  
**Chronic effects** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards  
**Developmental effects** : No known significant effects or critical hazards  
**Fertility effects** : No known significant effects or critical hazards  
**Target organs** : No known significant effects or critical hazards  
**Over-exposure signs/symptoms**  
**Inhalation** : No specific data  
**Ingestion** : No specific data  
**Skin** : Adverse symptoms may include the following:  
Irritation  
Redness  
**Eyes** : No specific data  
**Medical conditions aggravated by overexposure** : None known  
**See toxicological information ( section 11)**

### 3. Composition/information on ingredients

This product is defined as an ‘article’ per the US Code of Federal Regulations 29 CFR 1910.1200 (b) and the REACH Regulations (EC) No. 1907/2006 article 3 (3). As such, it will not result in exposure of a hazardous chemical under normal use. This product does **not** include any of the 15 substances in the Candidate List of Substances of Very High Concern (SVHC) for Authorization above a concentration of 0.1% (w/w) published by ECHA October 10,2008.

### 4. First aid measures

<b>Eye contact</b>	: Not likely to occur under normal use.
<b>Skin contact</b>	: Wash with soap and water. Get medical attention if symptoms occur.
<b>Inhalation</b>	: Not likely to occur under normal use. Possible exposure to toxic fumes if burned.
<b>Ingestion</b>	: Not likely to occur under normal use.

### 5. Fire-fighting measures

<b>Flammability of the product</b>	: Aluminum layer will char while PET film layer will ignite and continue to burn in normal atmosphere. Burning film may drip and spread fire as it melts.
<b>Extinguishing Media</b>	
<b>Suitable</b>	: Water, Foam, CO2 or Dry Chemical
<b>Hazardous Material Decomposition products</b>	: Decomposition products may include the following material: Carbon Dioxide Carbon Monoxide Organic Acids Aldehydes Alcohols Other Hydrocarbons
<b>Special protective</b>	: Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

### 6. Accidental release measures

<b>Personal precautions</b>	: No specific measures required.
<b>Environmental precautions</b>	: Not applicable
<b>Methods for cleaning up</b>	: Due to the physical nature of this product, spills are not possible.

### 7. Handling and storage

<b>Handling</b>	: Local exhaust is recommended for use in environments above 100 ° C (212° F). Like most plastic films, this material can form a static charge. This material can also cause a slip hazard if good housekeeping procedures are not followed.
<b>Storage</b>	: Store in original package in a cool place, dry area to preserve shelf life.

## 8. Exposure controls/personal protection

<b>Recommended monitoring Procedures</b>	: None recommended under normal working conditions.
<b>Engineering measures</b>	: Local exhaust is recommended for use in environments above 100 ° C (212° F).
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling products, before eating, smoking and using the lavatory and at the end of the working period.
<b>Personal Protection</b>	: Safety glasses
<b>Eyes</b>	
<b>Skin</b>	: None
<b>Respiratory</b>	: A respirator is not needed under normal and intended conditions of use.
<b>Hands</b>	: Gloves
<b>HMIS Code/ Personal Protective Equipment</b>	: B
<b>Environmental Exposure Controls</b>	: None required under normal handling conditions.

## 9. Physical and chemical properties

<b>Physical State</b>	: Solid
<b>Boiling Point</b>	: N/A
<b>Specific Gravity</b>	1.98 ( water =1)
<b>Melting point</b>	254 °C (489 ° F)
<b>Flash Point</b>	: N/A
<b>Appearance</b>	: Glossy bright silver metallic
<b>Odor</b>	: None
<b>VOC</b>	: N/A
<b>Solubility</b>	: Insoluble in the following materials: water

## 10. Stability and reactivity

<b>Stability</b>	: The product is stable.
<b>Hazardous polymerization</b>	: None
<b>Conditions to avoid</b>	: None known
<b>Materials to avoid</b>	: None known
<b>Hazardous decomposition</b>	: Toxic gas upon burning or prolonged exposure to > 280 °C (536 ° F).

## 11. Toxicological information

No data available

## 12. Ecological information

No data available

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Material as supplied is not classified as a RCRA waste.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to section 7: HANDLING and STORAGE and section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transportation information

**AERG** : Not applicable

**Regulatory Information  
DOT/TDG/IMDG/IATA** : Not regulated

## 15. Regulatory information

### United States

#### U.S. Federal regulations

: United states inventory (TSCA 8b): All components are listed or exempted.  
**SARA 302/304/311/312 extremely hazardous substance:** No products were found.  
**SARA 302/304 Emergency Planning and Notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** No products were found.  
**Clean Water Act (CWA) 307:** No products were found.  
**Clean Water Act (CWA) 311:** No products were found.  
**Clean Air Act (CAA) 112 accidental release prevention** No products were found.  
**Clean Air Act (CAA) 112 regulated flammable substances** No products were found.  
**Clean Air Act (CAA) 112 regulated toxic:** No products were found.

#### California Prop. 65

: No products were found

## 16. Other information

**Label Requirements** : None

**References** : ANSI Z400.5, MSDS standard, 2004.-Manufacturer's Material Safety Data Sheet-29CFR Part 1910.1200 OSHA MSDS Requirements.-49 CFR Table List of Hazardous Materials, UN #, Proper Shipping Names, PG. -

**Date of Issue** :02/27/09

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#### Notice to reader

**To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.**