

## MATERIAL SAFETY DATA SHEET

Hazard Rating		
	HMIS (USA)	NFPA
HEALTH	0	0
FIRE	1	1
REACTIVITY	0	0



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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** VR Protective Wear  
**Product Description:** Blue Tint Polyolefin Film  
**Color:** Transparent Royal Blue

### 2. COMPOSITION INFORMATION

Common Name	CAS No.	Approx. Wt %
Copolymer of Ethylene and Octane -1	026221-73-8	96.10
Polyethylene Homopolymer	9002-88-4	3.35
Flux Calcined Diatomaceous Earth	N/A	0.21
Erucamide	N/A	<0.10
Copper,[29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32]-,(SP-4-1)-(PBL15)	147-14-8	<0.10
Zinc Stearate	557-05-1	<0.05
Iron Oxide (PR101)	1309-37-1	<0.05
Tris(2,4-Di-Tert-Butylphenyl) Phosphite	31570-04-4	<0.05
Octadecyl 3,5-Di-Tert-Butyl-4-Hydroxy-Drocinamate	2082-79-3	<0.05

**Comments:** Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** This material is NOT HAZARDOUS by OSHA HAZARD Communication definition.

**Physical and Health Hazards:** Molten film may cause thermal burns.  
**Primary Route of Exposure:** Skin Contact  
**Eye Contact:** Mechanical irritation. Molten film may cause thermal burns.  
**Skin Contact:** Molten film may cause thermal burns.  
**Inhalation:** Not hazardous in normal industrial use.  
**Ingestion:** Unlikely in normal industrial use.  
**Chronic Health Effects Summary:** No known chronic health effects.  
**Conditions Aggravated by Exposure:** No known conditions are aggravated by this material.

#### 4. FIRST AID MEASURES

- Inhalation:** No specific intervention is indicated, as the compound is not likely to be inhaled. If the compound is inhaled, it is not likely to be hazardous. If exposed to fumes from combustion or over-heating, move to fresh air. Consult a physician if necessary.
- Skin Contact:** The film is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If molten film gets on the skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.
- Eye Contact:** Flush eyes with clean, low-pressure water. Contact a physician.
- Ingestion:** Adverse health effects due to ingestion are not anticipated. If gastric irritation or discomfort persists, seek medical advice.

#### 5. FIRE FIGHTING METHODS

- Flammable Properties:** The solid film will burn, but will not ignite readily.
- Fire and Explosion Hazards:** Hazardous gases/vapors produced in a fire are carbon dioxide, carbon monoxide, organic acids, aldehydes, and alcohols.
- Extinguishing Media:** Water, Foam, CO<sub>2</sub>, Dry Chemical.
- Fire Fighting Instructions:** Wear a NIOSH-approved positive-pressure self-contained breathing apparatus. Also wear full body protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

**Response:** Pick up and retain for recycle or disposal.

#### 7. HANDLING AND STORAGE

**Handling:** No special considerations for normal industrial use.

**Storage:** Keep in cool, dry place. Keep covered to prevent contamination.

#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Engineering Controls:** Normal ventilation for standard industrial use. If user operations generate dust, fumes or mist, use ventilation to maintain ambient airborne contaminants below recommended occupational exposure limits.

##### Personal Protective Equipment

Inhalation:	Not Required
Protective Gloves:	Not Required
Eyes/Face:	Not Required

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

##### Physical Data

Specific Gravity:	0.8994 g/cc
Melting Point:	180°F (82°C)
% Volatiles:	Not Applicable
Solubility in Water:	Negligible
Odor:	None
Form:	Tinted Film
Color:	Royal Blue Transparent

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Incompatibility w/ Other Materials:** Film may be softened by some hydrocarbons.

**Decomposition:** Not expected to decompose under normal conditions. At elevated temperatures, may form oxides of Nitrogen and Carbon.

**Polymerization:** None

**Other Hazards:** Avoid Temperature above 212°F (100°C)

## 11. TOXICITY INFORMATION

**Summary:** Not considered to be toxic to humans or animals.

**Skin Effects:** No skin effects are expected.

**Reproductive/ Developmental Effects:** No reproductive or developmental effects are expected.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Ecotoxicity is expected to be low, based on the low water solubility of the polymers.

**Bio-accumulation:** Not expected to occur.

## 13. DISPOSAL CONSIDERATIONS

This material is not classified as hazardous material by RCRA. Use only licensed transporters and permitted disposal facilities. Conform to all laws. Recycle to process, if possible.

The high fuel value of this product makes incineration with energy recovery very desirable for material that cannot be recycled.

## 14. TRANSPORT INFORMATION

Not Regulated

## 15. REGULATORY INFORMATION

**Federal:** This product is not considered hazardous by OSHA Hazard Communication Standard. TSCA – All components of this product are listed on the TSCA 8(b) inventory. Ozone-Depleting Chemicals – No regulated ingredients. SARA Section 302 – No regulated ingredients. SARA Section 311/312 – No ingredients subject to reporting requirements. SARA Section 313 – No regulated ingredients.

**State:** No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of this product.

California: No substances known to state to cause cancer, birth defects or other reproductive harm.

New Jersey: No known ingredients on the New Jersey Workplace Hazardous Substance. List present at concentrations greater than 0.1%. This includes substances identified as carcinogens, mutagens or teratogens.

Pennsylvania: No known hazardous ingredients present at 1% or more.

## 16. OTHER INFORMATION

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

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