

# Noltex, L.L.C.

## Material Safety Data Sheet

SOARNOL A4412

REVISED DATE: 4/2/07

---

### SECTION 1: MATERIAL IDENTIFICATION AND COMPANY IDENTIFICATION

---

PRODUCT NAME:	ETHYLENE VINYL ALCOHOL COPOLYMER	
SYNONYMS:	SOARNOL BARRIER RESIN	
CHEMICAL NAME:	EVOH	
MANUFACTURER:	Noltex L.L.C. 12220 Strang Road LaPorte, TX 77571-9740	
PRODUCT INFORMATION:	281-842-5000	REVISION: 2
CHEMTREC:	1-800-424-9300	
MEDICAL EMERGENCY:	281-842-5035	

---

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

---

<u>INGREDIENTS</u>	<u>CAS Number</u>	<u>%</u>
Ethylene Vinyl Alcohol Copolymer (EVOH)	26221-27-2	99.7 min
Water	7732-18-5	0.3 max

---

### SECTION 3: HEALTH HAZARD INFORMATION

---

There is no information available to describe the human health effect by skin contact. However, based on experience with handling these polymers and others, which are similar chemically, no unusual dermatitis hazard is expected from routine handling. Skin contact with molten polymer will cause thermal burns. Eye contact is expected to cause no more than mechanical irritation. Polymer is not respirable as marketed. At processing temperatures ( 245 deg. C, 473 deg. F), fumes irritating to the eyes, nose and throat may be produced. This exposure may result in reddening, tearing and itching of the eyes and soreness in the nose and throat together with coughing. Ingestion is not a probable route of exposure. Toxicity by ingestion is predicted to be low (LD<sub>50</sub> (oral, rat) is > 5,000 mg/kg; Feeding (oral, rat) 5% in diet no observable change due to Soarnol was observed).

#### CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen. Soarnol is not mutagenic.

#### EXPOSURE LIMITS

TLV (ACGIH) : None Established  
PEL (OSHA) : None Established

#### SAFETY PRECAUTIONS

Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

---

### SECTION 4: FIRST AID

---

#### INHALATION

If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician.

#### SKIN CONTACT

Wash with soap and plenty of water.  
If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burns.

#### EYE CONTACT

Irrigate with water for 15 minutes. Consult a physician.

# Noltex, L.L.C.

## Material Safety Data Sheet

SOARNOL A4412

REVISED DATE: 4/2/07

---

### SECTION 5: FIRE AND EXPLOSION DATA

---

The solid polymer can be combusted only with difficulty. Under fire conditions, SOARNOL may decompose to form a flammable and/or explosive mixture in air.

#### FIRE AND EXPLOSION HAZARDS

Complete combustion gives carbon dioxide and water.

Incomplete combustion gives carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes and alcohols.

#### EXTINGUISHING MEDIA

Water, Foam, Dry Chemical, CO<sub>2</sub>

#### SPECIAL FIRE FIGHTING INSTRUCTIONS

Keep personnel removed & upwind of fire. Wear self-containing breathing apparatus. Wear full protective equipment.

---

### SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**Note:** Review FIRE AND EXPLOSION HAZARDS AND SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Pick up spilled polymer to avoid slipping hazard.

---

### SECTION 7: HANDLING AND STORAGE

---

Store in cool, dry place.

Keep containers and packages closed to prevent contamination.

---

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

---

#### GENERALLY APPLICABLE CONTROL MEASURES AND PRECAUTIONS

Local exhaust ventilation should be used over processing equipment.

#### PERSONAL PROTECTIVE EQUIPMENT

Eye/Face : Safety Glasses.  
Respirator : Not required if ventilation is adequate.  
Additional : Protective gloves and long sleeve shirt should be worn when handling hot polymer.

---

### SECTION 9: PHYSICAL DATA AND CHEMICAL PROPERTIES

---

Appearance: White to slightly yellowish translucent pellet  
Odor: Odorless  
Boiling point: Not relevant  
Melting point: 150 - 200<sup>0</sup>C (302-392<sup>0</sup>F)  
Flash point: More than 200<sup>0</sup>C (392<sup>0</sup>F)  
Ignition point: 500<sup>0</sup>C (932<sup>0</sup>F)  
Explosive properties: None  
Oxidizing properties: None  
Bulk Density: 0.64 - 0.74  
Relative Density: 1.12 - 1.24  
Solubility: Soluble - Water-Alcohol Mixed Solvent, DMSO  
Insoluble - Water, Ethyl acetate, Benzene, Toluene, MIBK

# Noltex, L.L.C.

## Material Safety Data Sheet

SOARNOL A4412

REVISED DATE: 4/2/07

---

### SECTION 10: STABILITY AND HAZARDOUS REACTIVITY

---

INSTABILITY: Stable at room temperature. Avoid temperature above 245 deg. C (473 deg. F)  
INCOMPATIBILITY: Strong oxidizing material.  
DECOMPOSITION: Hazardous gases/vapors produced are carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes and alcohols. Begins at 250<sup>0</sup>C (482<sup>0</sup>F)  
POLYMERIZATION: Polymerization will not occur.

---

### SECTION 11: TOXICOLOGICAL INFORMATION

---

AQUATIC TOXICITY Toxicity is expected to be low based on the polymer's negligible water solubility.

---

### SECTION 12: ECOLOGICAL INFORMATION

---

N/A

---

### SECTION 13: DISPOSAL CONSIDERATIONS

---

WASTE DISPOSAL Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.  
Incinerate or landfill.

---

### SECTION 14: TRANSPORT INFORMATION

---

DOT Proper Shipping Name: Not Regulated by DOT

---

### SECTION 15: REGULATORY INFORMATION

---

N/A

---

### SECTION 16: ADDITIONAL INFORMATION

---

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

Responsibility for MSDS  
Noltex L.L.C.  
12220 Strang Road  
LaPorte, TX 77571-9740

Safety Department 281-842-5034