

# MATERIAL SAFETY DATA SHEET

## Polyken 1619 Primer

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Polyken 1619 Primer  
**Product Description** Primer for Pipe Corrosion Protection System  
**Manufacturer/Supplier** Berry Plastics Corporation, Tapes and Coatings Division  
**Address** 25 Forge Parkway  
 Franklin, MA 02038  
**Phone Number** (800) 248-7659 (Monday – Friday 8:00 am to 5:00 pm)  
**Chemtrec Number** (800) 424-9300  
**Revision Date:**  
**MSDS Date:** May 27, 2011

*Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)*

### 2. HAZARDS IDENTIFICATION

#### EU Main Hazards

R11 Highly flammable.  
 R36/38 Irritating to eyes and skin.  
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
 R63 Possible risk of harm to the unborn child.  
 R65 Harmful: may cause lung damage if swallowed.  
 R67 Vapours may cause drowsiness and dizziness.

#### Routes of Entry

Absorption - Eye contact - Ingestion - Inhalation - Skin contact

#### Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

#### Target Organs

Central Nervous System - Skin - Eye - Liver - Kidney - Respiratory System - Reproductive - Heart

#### Health Effects - Eyes

Liquid, mist or vapor may cause pain, transient irritation and superficial corneal effects.

#### Health Effects - Skin

Material may cause irritation. Repeated or prolonged contact may cause defatting of the skin leading to irritation and dermatitis. Repeated or prolonged contact may cause sensitization in susceptible individuals. Material can be absorbed through the skin and cause effects similar to those resulting from inhalation.

#### Health Effects - Ingestion

Swallowing may have the following effects:

- abdominal pain - vomiting - central nervous system depression - kidney damage - liver damage - adverse heart effects - testis damage - aspiration into the lungs may occur during ingestion or vomiting causing lung damage

A large dose may have the following effects:

- systemic effects similar to those resulting from inhalation

#### Health Effects - Inhalation

Exposure to vapor may have the following effects:

- irritation of nose, throat and respiratory tract - central nervous system depression - dizziness - drowsiness - headache - mental confusion - respiratory sensitization in susceptible individuals

Exposure to vapor at high concentrations may have the following effects:

- nerve damage leading to numbness and muscle weakness - lung damage - liver damage - kidney damage - testis damage - adverse reproductive effects - adverse heart effects

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Toluene	108-88-3 203-625-9	70 - 90%	R11, R38, R48/20, R63, R65, R67	F, Xn, Xi, Repro Cat 3
Polymers and Resins	N.A.	<25%	None	None
Modified Rosin	N.A.	<10%	None	None

---

### 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

Immediately flood the skin with large quantities of water for at least 15 minutes, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

#### Ingestion

Do not induce vomiting, unless directed to do so by a physician. Have victim drink 1-3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

#### Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

#### Advice to Physicians

Treat symptomatically.

---

### 5. FIRE- FIGHTING MEASURES

---

#### Extinguishing Media

Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

#### Unusual Fire and Explosion Hazards

Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware of possibility of re-ignition.

#### Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

---

### 6. ACCIDENTAL RELEASE MEASURES

---

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing. Eliminate all sources of ignition. Use non-sparking scoops for flammable materials. Vapors can accumulate in low areas. Consider need for evacuation. Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation.

---

### 7. HANDLING AND STORAGE

---

Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment when applying product to heated pipes (see Section 8). Keep container tightly closed when not in use.

Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated - out of direct sunlight - away from sources of ignition (heat, sparks, flames, pilot lights) - away from incompatible materials (see Section 10)

---

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Occupational Exposure Standards

Exposure limits are listed below, if they exist.

#### Toluene

ACGIH: TLV 20ppm (75 mg/m<sup>3</sup>) 8h TWA

OSHA: PEL 200ppm 8h TWA. 300 ppm CEILING, 500 ppm 10-min peak per shift.

#### Modified Rosin

None assigned.

#### Polymers and Resins

None assigned.

### Engineering Control Measures

Use engineering methods to prevent or control exposure. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

### Respiratory Protection

Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

### Hand Protection

Butyl gloves are recommended.

### Eye Protection

Chemical goggles or safety glasses with side shields. Consider the use of a face shield if splashing is possible.

### Body Protection

If there is danger of splashing, wear: overall or apron

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Physical State	Liquid
Color	Clear
Odor	Solvent
pH	No data
Density (lbs/gal)	7.4
Boiling Range/Point (°C/F)	No data
Melting Point (°C/F)	Not applicable
Flash Point (°C/F)	7° C/45°F
Vapor Pressure	No data
Evaporation Rate	Slower than ether
Solubility in Water	Negligible
Vapor Density	Heavier than air.
VOC	0.72 kg/l (5.97 lbs./gal)

---

## 10. STABILITY AND REACTIVITY

---

### Stability

Stable under normal conditions.

### Conditions to Avoid

Heat, sparks, flames - High temperatures - sources of ignition - contact with incompatible materials

### Materials to Avoid

Strong oxidizing agents - strong acids

---

## 10. STABILITY AND REACTIVITY

---

### Hazardous Polymerization

Will not occur.

### Hazardous Decomposition Products

Oxides of carbon - aldehydes - carboxylic acids - smoke – formaldehyde - hydrocarbons

---

## 11. TOXICOLOGICAL INFORMATION

---

### Acute Toxicity

Toluene: Oral LD50 rat >2,000 mg/kg

Dermal LD50 rabbit >3,000 mg/kg

Inhalation LC50(rat) 28.1 mg/l 4hr

Modified Rosin: Oral LD50 >5000mg/kg

### Specific Target Organ Systemic Toxicity (single and repeat)

Toluene: Adverse effects to central nervous system, liver, kidney and heart have been observed in laboratory animal studies.

Modified Rosin: Mild reversible respiratory irritation from single and repeated inhalation exposure to heated vapors of this or a similar material.

### Serious Eye damage/Eye Irritation

Toluene: Causes irritation to rabbit eyes.

### Skin Corrosion/Irritation

Toluene: Causes moderate irritation to rabbit skin.

### Respiratory or Skin Sensitization

Modified Rosin: Rosin and some derivatives have been reported to cause an allergic skin reaction in susceptible individuals after repeated, prolonged contact. Smoke or fumes generated by heating may lead to respiratory sensitization (asthma) in susceptible individuals.

Toluene: Did not cause sensitization in laboratory animals.

### Carcinogenicity

Toluene: No evidence of carcinogenic activity in laboratory animal studies.

### Germ Cell Mutagenicity

Toluene: Negative Ames Test with and without metabolic activation.

### Toxicity to Reproduction

Toluene: In laboratory studies, birth defects, increased fetal lethality and delayed fetal development have been observed in offspring of female animals exposed during pregnancy. Toluene has been demonstrated to be embryofetotoxic and teratogenic in laboratory animals.

---

## 12. ECOLOGICAL INFORMATION

---

### Mobility

No relevant studies identified.

### Persistence/Degradability

Modified rosin: Slowly biodegradable.

### Bio-accumulation

No relevant studies identified.

### Ecotoxicity

Toluene: LC50 Fathead minnow (*Pimephales promelas*) 34.27 mg/l 96hr

EC50 *Daphnia magna* 11.5 mg/l 48 h

Modified Rosin: Aquatic LC50 >1000 mg/l 48hr static

---

## 13. DISPOSAL CONSIDERATIONS

---

Dispose of in accordance with all applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Use non-sparking tools. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.

---

**14. TRANSPORT INFORMATION**

---

<b>DOT CFR 172.101 Data</b>	Coating Solution (3) UN1139, II
<b>UN Proper Shipping Name</b>	Coating Solution
<b>UN Class</b>	(3)
<b>UN Number</b>	UN1139
<b>UN Packaging Group</b>	II
<b>Classification for AIR Transportation (IATA)</b>	Consult current IATA Regulations prior to shipping by air.

---

**15. REGULATORY INFORMATION**

---

**EU Label Information**

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

**EU Hazard Symbol and Indication of Danger**

T- Toxic

F- Flammable

**R phrases**

R11 Highly flammable.

R36/38 Irritating to eyes and skin.

R45 May cause cancer.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness

**S phrases**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately.

S53 Avoid exposure – obtain special instructions before use.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS****TSCA Listing**

All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.

**EINECS Listing**

All ingredients in this product have not been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS).

**DSL (Canadian) Listing**

All ingredients in this product have not been verified for inclusion on the Domestic Substance List (DSL).

**California Proposition 65**

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Toluene (108-88-3) - Ethylbenzene (100-41-4) <0.03% - Formaldehyde (50-00-0) trace – Benzene ( 71-43-2) trace

**WHMIS Classification**

B2.D2A

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

**SARA Title III Sect. 311/312 Categorization**

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard

---

**15. REGULATORY INFORMATION**

---

**SARA Title III Sect. 313**

This product contains a chemical that is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: Toluene (108-88-3)

---

**16. OTHER INFORMATION**

---

**NFPA Ratings**

NFPA Code for Flammability - 4  
NFPA Code for Health - 2  
NFPA Code for Reactivity - 0  
NFPA Code for Special Hazards – None

**HMIS Ratings**

HMIS Code for Flammability - 4  
HMIS Code for Health - 2\*  
HMIS Code for Reactivity - 0  
HMIS Code for Personal Protection - See Section 8

**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  
R: Risk  
S: Safety

**For further Information email:** msdstechnical@berryplastics.com

**Prepared By:** EnviroNet LLC.

The information and recommendations presented in this MSDS are based on sources believed to be accurate. Berry Plastics Corporation, Tapes and Coatings Division 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.