



# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 10/27/2016 Date of Issue: 06/03/2015

Version: 2.2

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE418BNWTG, VE514BN, VE611BN, VE611BNOR, VE611BNTB, VE611BNWTG, VE616BN, VE616BNTB, VE712BN, VE712BNNTG, VE712BNTB; Plioweld™ LS551, LS555, LS561. Products Include TB/TG Versions Where Applicable.

**Document Code:** SDS090

**Family:** Rubber Lining

#### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** Natural Rubber Lining. For Professional Use Only.

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Blair Rubber Company  
5020 Enterprise Parkway  
Seville, OH 44273  
T 800-321-5583

[blairrubber.com](http://blairrubber.com)

#### 1.4. Emergency Telephone Number

**Emergency Number** : 800-424-9300 (CHEMTREC), 202-483-7616 (International)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US classification

Resp. Sens. 1 H334

Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



GHS08

##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

##### Precautionary Statements (GHS-US)

: P261 - Avoid breathing dust, fumes from decomposition, vapors from decomposition.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear eye protection, protective clothing, protective gloves.

P284 - In case of inadequate ventilation wear respiratory protection.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P321 - Specific treatment (see Section 4 on this SDS).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 2.3. Other Hazards

May form combustible dust concentrations in air when processed. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations. When heated to decomposition, emits toxic fumes. Contains chemicals with hazards that are associated with their dust and usual forms. The hazards associated with these chemicals are not bioavailable under normal conditions of use due to the compounds being polymer bound. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

## 2.4. Unknown Acute Toxicity (GHS-US)

1.5 - 10.29 percent of the mixture consists of ingredient(s) of unknown acute toxicity.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product Identifier	%
Elastomer #1	(CAS No) Proprietary	40.0 - 70.0
Carbon black	(CAS No) 1333-86-4	20.0 - 50.0
Activator #1	(CAS No) Proprietary	1.0 - 5.0
Tackifier #10	(CAS No) Proprietary	0.1 - 5.0
Process Aid #16	(CAS No) Proprietary	0.1 - 3.0
Antidegradant #14	(CAS No) Proprietary	0.1 - 2.0
Plasticizer #1	(CAS No) Proprietary	0.1 - 2.0
Plasticizer #2	(CAS No) Proprietary	0.1 - 2.0
Accelerator #12	(CAS No) Proprietary	0.1 - 2.0
Activator #3	(CAS No) Proprietary	0.1 - 2.0
Crosslinker #1	(CAS No) Proprietary	0.1 - 2.0
Accelerator #10	(CAS No) Proprietary	0.1 - 2.0
Antidegradant #12	(CAS No) Proprietary	0.1 - 2.0
Antidegradant #6	(CAS No) Proprietary	0.1 - 1.0
Accelerator #3	(CAS No) Proprietary	0.1 - 1.0
Accelerator #5	(CAS No) Proprietary	0.1 - 1.0
Antidegradant #10	(CAS No) Proprietary	0.1 - 1.0
Activator #12	(CAS No) Proprietary	0.1 - 1.0
Antidegradant #13	(CAS No) Proprietary	0.1 - 1.0
Accelerator #1	(CAS No) Proprietary	0.1 - 1.0

The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**First-aid Measures After Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** May cause an allergic reaction in sensitive individuals.

# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Symptoms/Injuries After Inhalation:** When heated, material emits irritating fumes. Exposure may produce cough mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Fumes from thermal decomposition may cause eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

## 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide, foam.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Other Information:** Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Do not breathe fumes from fires or vapors from decomposition.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Sweep or vacuum the product to recover it.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. Concerning disposal elimination after cleaning, see item 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** When heated to decomposition, emits toxic fumes.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 7.3. Specific End Use(s)

Natural Rubber Lining. For Professional Use Only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Elastomer #1 (CAS No) Proprietary		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.0001 mg/m <sup>3</sup> (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route
Carbon black (1333-86-4)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	1750 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Activator #1 (CAS No) Proprietary		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (respirable particulate matter)
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (respirable particulate matter)
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (dust and fume)
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (fume)
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (fume) 15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
Process Aid #16 (CAS No) Proprietary		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	4000 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

#### Personal Protective Equipment

: Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



#### Materials for Protective Clothing

: Chemically resistant materials and fabrics.

#### Hand Protection

: Wear chemically resistant protective gloves.

#### Eye Protection

: Chemical goggles or safety glasses.

#### Skin and Body Protection

: Wear suitable protective clothing.

#### Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

#### Consumer Exposure Controls

: Do not eat, drink or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

#### Physical State

: Solid

# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Appearance	: Black
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: 500 °F (260 °C)
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: 1.07 - 1.19
Density	: 1.36 - 1.55 lb/ft <sup>3</sup> (1/4" thk)
Solubility	: Insoluble in water.
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

9.2. **Other Information** No additional information available.

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable at standard temperature and pressure.
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Sulfur oxides. Oxides of zinc. Thermal decomposition generates hydrochloric acid, hydrocarbons, soot, toxic gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

<b>Carbon black (1333-86-4)</b>	
LD50 Oral Rat	> 8000 mg/kg
<b>Activator #1 (CAS No) Proprietary</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Plasticizer #1 (CAS No) Proprietary</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	2.18 mg/l/4h
<b>Plasticizer #2 (CAS No) Proprietary</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5.53 mg/l/4h
<b>Accelerator #12 (CAS No) Proprietary</b>	
LD50 Oral Rat	4300 mg/kg
<b>Antidegradant #6 (CAS No) Proprietary</b>	
LD50 Oral Rat	893 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg
<b>Activator #3 (CAS No) Proprietary</b>	

# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Accelerator #3 (CAS No) Proprietary</b>	
LD50 Oral Rat	2010 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
<b>Crosslinker #1 (CAS No) Proprietary</b>	
LD50 Oral Rat	> 3000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 9.23 mg/l/4h
<b>Tackifier #10 (CAS No) Proprietary</b>	
LD50 Oral Rat	> 5 g/kg
LD50 Dermal Rabbit	> 2 g/kg
<b>Accelerator #5 (CAS No) Proprietary</b>	
LD50 Oral Rat	> 12 g/kg
LD50 Dermal Rabbit	> 7940 mg/kg
<b>Antidegradant #10 (CAS No) Proprietary</b>	
LD50 Oral Rat	> 10000 mg/kg
LD50 Dermal Rabbit	> 10000 mg/kg
<b>Activator #12</b>	
LD50 Oral Rat	> 10000 mg/kg
<b>Antidegradant #12 (CAS No) Proprietary</b>	
LD50 Oral Rat	800 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 2.12 mg/l/4h
ATE (Dust/Mist)	1.50 mg/l/4h
<b>Antidegradant #13 (CAS No) Proprietary</b>	
LD50 Oral Rat	> 15 g/kg
LD50 Dermal Rabbit	> 5 g/kg
LC50 Inhalation Rat	2.18 mg/l/4h
<b>Process Aid #16 (CAS No) Proprietary</b>	
LD50 Oral Rat	7499 mg/kg
LD50 Dermal Rabbit	> 20 ml/kg
LC50 Inhalation Rat	> 15.68 mg/l/4h
<b>Accelerator #1 (CAS No) Proprietary</b>	
LD50 Oral Rat	690 mg/kg
LD50 Dermal Rat	> 2000 mg/kg

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

<b>Carbon black (1333-86-4)</b>	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** When heated, material emits irritating fumes. Exposure may produce cough mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Fumes from thermal decomposition may cause eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

<b>Carbon black (1333-86-4)</b>	
EC50 Daphnia 1	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)
<b>Activator #1 (CAS No) Proprietary</b>	
LC50 Fish 1	780 µg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.122 mg/l
NOEC Chronic Fish	0.026 mg/l (Species: Jordanella floridae)
<b>Antidegradant #14 (CAS No) Proprietary</b>	
EC50 Daphnia 1	56 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
<b>Plasticizer #1</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Plasticizer #2 (CAS No) Proprietary</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Accelerator #12 (CAS No) Proprietary</b>	
LC50 Fish 1	3.68 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 1	4.5 mg/l (Exposure time 48 h - Species: Daphnia magna [static])
<b>Antidegradant #6 (CAS No) Proprietary</b>	
LC50 Fish 1	0.4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	0.51 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	0.028 mg/l (Exposure time: 96 h - Species: Oryzias latipes [flow-through])
<b>Accelerator #3 (CAS No) Proprietary</b>	
LC50 Fish 1	1.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	> 22 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	0.41 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>Crosslinker #1 (CAS No) Proprietary</b>	
LC50 Fish 1	866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	736 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Accelerator #10 (CAS No) Proprietary</b>	
LC50 Fish 1	9.1 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
<b>Activator #12</b>	
LC50 Fish 1	4.4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>Antidegradant #12 (CAS No) Proprietary</b>	
LC50 Fish 1	5.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 Daphnia 1	1.4 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
<b>Antidegradant #13 (CAS No) Proprietary</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Process Aid #16 (CAS No) Proprietary</b>	
LC50 Fish 1	0.71 - 1.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	2.99 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	0.31 - 5.45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

EC50 Daphnia 2	3.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Fish	0.1 mg/l (Exposure time: 99 d - Species: Oncorhynchus mykiss [flow-through])
<b>Accelerator #1 (CAS No) Proprietary</b>	
LC50 Fish 1	4.2 - 6.8 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
EC50 Daphnia 1	1.4 - 1.8 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1.8 - 3.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
ErC50 (Algae)	1 mg/l
NOEC Chronic Fish	0.01 mg/l

**12.2. Persistence and Degradability** No additional information available.

### 12.3. Bioaccumulative Potential

<b>Antidegradant #6 (CAS No) Proprietary</b>	
BCF Fish 1	(bioaccumulation expected)
Log Pow	5.4
<b>Accelerator #3</b>	
Log Pow	3.4 (at 22 °C)
<b>Accelerator #5 (CAS No) Proprietary</b>	
Log Pow	4.5
<b>Process Aid #16</b>	
Log Pow	5.38 (at 25 °C)
<b>Accelerator #1 (CAS No) Proprietary</b>	
Log Pow	1.17

### 12.4. Mobility in Soil

<b>Activator #3 (CAS No) Proprietary</b>	
Log Koc	51.05

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

## SECTION 14: TRANSPORT INFORMATION

- 14.1. In Accordance with DOT** Not regulated for transport.  
**14.2. In Accordance with IMDG** Not regulated for transport.  
**14.3. In Accordance with IATA** Not regulated for transport.

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE418BNWTG, VE514BN, VE611BN, VE611BNOR, VE611BNTB, VE611BNWTG, VE616BN, VE616BNTB, VE712BN, VE712BNTB; Plioweld™ LS551, LS555, LS561	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
<b>Carbon black (1333-86-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Activator #1 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Antidegradant #14 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))
<b>Plasticizer #1 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	



# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Plasticizer #2 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Accelerator #12 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Antidegradant #6 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Activator #3</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Accelerator #3 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Crosslinker #1 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Accelerator #10 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Tackifier #10 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))
<b>Accelerator #5 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Antidegradant #10 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Activator #12 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Antidegradant #12 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Antidegradant #13 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Process Aid #16 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	10 lb
<b>SARA Section 313 - Emission Reporting</b>	1.0 %
<b>Accelerator #1 (CAS No) Proprietary</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

## 15.2. US State Regulations

<b>Carbon black (1333-86-4)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Process Aid #16 (CAS No) Proprietary</b>	
<b>U.S. - California - Proposition 65 - Developmental Toxicity</b>	WARNING: This product contains chemicals known to the State of California to cause birth defects.
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>	WARNING: This product contains chemicals known to the State of California to cause (Female) reproductive harm.
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>	WARNING: This product contains chemicals known to the State of California to cause (Male) reproductive harm.
<b>Carbon black (1333-86-4)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances	

# EnduraFlex™ C511BN, CU611BN, CU616BN, RC611BN, VE418BN, VE514BN, VE611BN, VE616BN, VE712BN; Plioweld™ LS551, LS555, LS561

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S. - Pennsylvania - RTK (Right to Know) List
<b>Activator #1 (CAS No) Proprietary</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Plasticizer #2 (CAS No) Proprietary</b>
U.S. - Massachusetts - Right To Know List
<b>Crosslinker #1 (CAS No) Proprietary</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Antidegradant #13 (CAS No) Proprietary</b>
U.S. - Massachusetts - Right To Know List
<b>Process Aid #16 (CAS No) Proprietary</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 10/27/2016  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

**GHS Full Text Phrases:**

Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Sens. 1	Skin sensitization Category 1
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)