

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixtures

Product Name: EnduraFlex™ C924BNG, VE634BNG, VE642BGC, VE645BGC, VE925BNG, VE925BNGNTG, VE925BNGTB;
Plioweld™ LS533, LS539. Products Include TB/TG Versions Where Applicable.

Document Code: SDS214

1.2. Intended Use of the Product

Use of the Substance/Mixture: Natural and Butyl 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

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
Carc. 1B	H350
Repr. 2	H361

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

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)

:



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.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child.

Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.
P202 - Do not handle until dust, fumes from decomposition, vapors from decomposition.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, and eye protection.
P284 - In case of inadequate ventilation wear respiratory protection.
P302+P352 - If on skin: Wash with plenty of water.
P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
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.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

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2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. 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.

2.4. Unknown Acute Toxicity (GHS-US)

1.05% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

1.05% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

1.05% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%
Elastomer #1	(CAS-No.) Proprietary	25.0 - 60.0
Carbon black	(CAS-No.) 1333-86-4	1.0 - 25.0
Elastomer #2	(CAS-No.) Proprietary	0.1 - 25.0
Crosslinker #5	(CAS-No.) Proprietary	5.0 - 20.0
Filler #4	(CAS-No.) Proprietary	1.0 - 20.0
Elastomer #4	(CAS-No.) Proprietary	0.1 - 20.0
Filler #10	(CAS-No.) Proprietary	0.1 - 20.0
Activator #1	(CAS-No.) Proprietary	0.1 - 10.0
Filler #13	(CAS-No.) Proprietary	0.1 - 10.0
Elastomer #5	(CAS-No.) Proprietary	0.1 - 5.0
Activator #18	(CAS-No.) Proprietary	0.1 - 5.0
Filler #12	(CAS-No.) Proprietary	0.1 - 5.0
Filler #5	(CAS-No.) Proprietary	0.1 - 5.0
Plasticizer #1	(CAS-No.) Proprietary	0.1 - 5.0
Filler #11	(CAS-No.) Proprietary	0.1 - 5.0
Process Aid #3	(CAS-No.) Proprietary	0.1 - 5.0
Tackifier #6	(CAS-No.) Proprietary	0.1 - 5.0
Filler #11	(CAS-No.) Proprietary	0.1 - 5.0
Antidegradant #2	(CAS-No.) Proprietary	0.1 - 5.0
Antidegradant #14	(CAS-No.) Proprietary	0.1 - 1.0
Activator #3	(CAS-No.) Proprietary	0.1 - 1.0
Process Aid #1	(CAS-No.) Proprietary	0.1 - 1.0
Accelerator #10	(CAS-No.) Proprietary	0.1 - 1.0
Antidegradant #10	(CAS-No.) Proprietary	0.1 - 1.0
Filler #2	(CAS-No.) Proprietary	0.1 - 1.0
Activator #6	(CAS-No.) Proprietary	0.1 - 1.0
Accelerator #5	(CAS-No.) Proprietary	0.1 - 1.0
Tackifier #5	(CAS-No.) Proprietary	0.1 - 1.0
Activator #12	(CAS-No.) Proprietary	0.1 - 1.0
Elastomer #3	(CAS-No.) Proprietary	0.1 - 1.0
Crosslinker #1	(CAS-No.) Proprietary	< 0.5
Tackifier #13	(CAS-No.) Proprietary	< 0.5
Activator #17	(CAS-No.) Proprietary	< 0.5
Accelerator #1	(CAS-No.) Proprietary	< 0.5

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Activator #14	(CAS-No.) Proprietary	< 0.5
Antidegradant #5	(CAS-No.) Proprietary	< 0.5
Tackifier #1	(CAS-No.) Proprietary	< 0.5
Accelerator #3	(CAS-No.) Proprietary	< 0.5
Antidegradant #17	(CAS-No.) Proprietary	< 0.5
Antidegradant #18	(CAS-No.) Proprietary	< 0.5
Tackifier #7	(CAS-No.) Proprietary	< 0.5

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [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 where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. 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. Obtain medical attention if irritation develops or persists.

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: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization. There are potential chronic health effects to consider.

Symptoms/Injuries After Inhalation: Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. Dust may be harmful or cause irritation.

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

Symptoms/Injuries After Eye Contact: Dusts caused from milling and physical alteration will likely cause eye irritation. Fumes from thermal decomposition or molten material will likely be irritating to the eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer. Suspected of damaging fertility or the unborn child.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

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: Dust generated from processing may present a dust explosion hazard.

Explosion Hazard: Dust explosion hazard in air.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

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.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Sulfur oxides. Hydrocarbons. Toxic fumes may be released.

Other Information: Risk of dust explosion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid generating dust. Do not breathe fumes from fires or vapors from decomposition. Keep away from heat, hot surfaces, sparks, open flames, incompatible materials, combustible materials, and other ignition sources. No smoking.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

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Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generation of dust during clean-up of spills.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. For particulates and dust: Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards 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.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. Avoid creating or spreading dust. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust. Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed.

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

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Natural and Butyl 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 ³)	0.0001 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route
Carbon black (CAS-No.) 1333-86-4		
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA IDLH	US IDLH (mg/m ³)	1750 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	3.5 mg/m ³
Filler #13 (CAS-No.) Proprietary		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust)

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		5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Filler #5 (CAS-No.) Proprietary		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	50 µg/m ³
Filler #12 (CAS-No.) Proprietary		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA IDLH	US IDLH (mg/m ³)	5000 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust)
Filler #10 (CAS-No.) Proprietary		
USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Activator #17 (CAS-No.) Proprietary		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Filler #4 (CAS-No.) Proprietary		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (all forms except graphite fibers-respirable particulate matter)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	2.5 mg/m ³ (natural-respirable dust)
USA IDLH	US IDLH (mg/m ³)	1250 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (synthetic-total dust) 5 mg/m ³ (synthetic-respirable fraction)
Antidegradant #5 (CAS-No.) Proprietary		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (fume)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	2 mg/m ³ (fume)
Tackifier #7 (CAS-No.) Proprietary		
USA ACGIH	ACGIH Ceiling (ppm)	0.3 ppm
USA ACGIH	ACGIH chemical category	dermal sensitizer,Suspected Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (ppm)	0.016 ppm
USA NIOSH	NIOSH REL (ceiling) (ppm)	0.1 ppm
USA IDLH	US IDLH (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	0.75 ppm
USA OSHA	OSHA PEL (STEL) (ppm)	2 ppm (see 29 CFR 1910.1048)
Filler #2 (CAS-No.) Proprietary		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Filler #11 (CAS-No.) Proprietary		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³
USA IDLH	US IDLH (mg/m ³)	3000 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	6 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80mg/m ³ /%SiO ₂)

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Activator #1 (CAS-No.) Proprietary		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH STEL (mg/m ³)	10 mg/m ³ (respirable particulate matter)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³ (dust and fume)
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	10 mg/m ³ (fume)
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	15 mg/m ³ (dust)
USA IDLH	US IDLH (mg/m ³)	500 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (fume) 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Process Aid #3 (CAS-No.) Proprietary		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA IDLH	US IDLH (mg/m ³)	750 mg/m ³ (fume)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (fume, total particulate)

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Personal Protective Equipment

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



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear protective gloves.

Eye Protection

: Chemical safety goggles.

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. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
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

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Flash Point	: 260 °C (500 °F)
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
Solubility	: No data available
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 under recommended handling and storage conditions (see section 7).
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition. Dust accumulation (to minimize explosion hazard).
- 10.5. **Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. **Hazardous Decomposition Products:** None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Antidegradant #17 (CAS-No.) Proprietary	
LD50 Oral Rat	≈ 700 mg/kg
LD50 Dermal Rabbit	> 4000 mg/kg
LC50 Inhalation Rat	12500 mg/m ³ (Exposure time: 4 h)
Carbon black (CAS-No.) 1333-86-4	
LD50 Oral Rat	> 8000 mg/kg
Filler #13 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
Filler #5 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Filler #12 (CAS-No.) Proprietary	
LD50 Oral Rat	> 10000 mg/kg
Filler #10 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
Plasticizer #1 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5 mg/l/4h
Antidegradant #5 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 3600 mg/kg
Tackifier #5 (CAS-No.) Proprietary	
LD50 Oral Rat	> 2000 mg/kg
Tackifier #1 (CAS-No.) Proprietary	
LD50 Oral Rat	4600 mg/kg

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Tackifier #7 (CAS-No.) Proprietary	
LD50 Oral Rat	100 mg/kg
LD50 Dermal Rat	270 mg/kg
ATE (Gases)	700.00 ppmV/4h
Filler #2 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
Process Aid #1	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 4185 ppm/4h
Filler #11 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
Activator #1 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Antidegradant #18 (CAS-No.) Proprietary	
LD50 Oral Rat	2390 mg/kg
LD50 Dermal Rabbit	2200 mg/kg
Antidegradant #10 (CAS-No.) Proprietary	
LD50 Oral Rat	> 10000 mg/kg
LD50 Dermal Rabbit	> 10000 mg/kg
Accelerator #10 (CAS-No.) Proprietary	
LD50 Oral Rat	5200 mg/kg
LD50 Dermal Rabbit	> 10000 mg/kg
LC50 Inhalation Rat	> 164.4 mg/l (Exposure time: 1 h)
Accelerator #1 (CAS-No.) Proprietary	
LD50 Oral Rat	690 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
Activator #12 (CAS-No.) Proprietary	
LD50 Oral Rat	> 10000 mg/kg
LD50 Dermal Rabbit	> 5010 mg/kg
Activator #3 (CAS-No.) Proprietary	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Activator #18 (CAS-No.) Proprietary	
LD50 Oral Rat	632 mg/kg
Accelerator #5 (CAS-No.) Proprietary	
LD50 Oral Rat	> 12 g/kg
LD50 Dermal Rabbit	> 7940 mg/kg
Activator #14 (CAS-No.) Proprietary	
LD50 Oral Rat	350 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
Accelerator #3 (CAS-No.) Proprietary	
LD50 Oral Rat	2600 mg/kg
LD50 Dermal Rabbit	> 5010 mg/kg
Crosslinker #1 (CAS-No.) Proprietary	
LD50 Oral Rat	> 3000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 9.23 mg/l/4h

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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: May cause cancer.

Elastomer #2 (CAS-No.) Proprietary	
IARC group	3
Carbon black (CAS-No.) 1333-86-4	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Filler #5 (CAS-No.) Proprietary	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Filler #12 (CAS-No.) Proprietary	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Filler #11 (CAS-No.) Proprietary	
IARC group	3
Tackifier #7 (CAS-No.) Proprietary	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.
Filler #11 (CAS-No.) Proprietary	
IARC group	3

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. Dust may be harmful or cause irritation.

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

Symptoms/Injuries After Eye Contact: Dusts caused from milling and physical alteration will likely cause eye irritation. Fumes from thermal decomposition or molten material will likely be irritating to the eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer. Suspected of damaging fertility or the unborn child.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

Carbon black (CAS-No.) 1333-86-	
EC50 Daphnia 1	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)
Plasticizer #1 (CAS-No.) Proprietary	
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)
Tackifier #1 (CAS-No.) Proprietary	
LC50 Fish 1	0.25 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.07 - 0.12 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Tackifier #7 (CAS-No.) Proprietary	
LC50 Fish 1	22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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EC50 Daphnia 1	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Filler #11 (CAS-No.) Proprietary	
LC50 Fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
Activator #1 (CAS-No.) Proprietary	
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)
Antidegradant #14 (CAS-No.) Proprietary	
EC50 Daphnia 1	56 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
Antidegradant #2 (CAS-No.) Proprietary	
LC50 Fish 1	> 100 mg/l
Antidegradant #18 (CAS-No.) Proprietary	
LC50 Fish 1	1.9 mg/l
ErC50 (Algae)	1.8 mg/l
NOEC Chronic Algae	0.19 mg/l
Accelerator #10 (CAS-No.) Proprietary	
LC50 Fish 1	9.1 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
Accelerator #1 (CAS-No.) Proprietary	
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
Activator #12 (CAS-No.) Proprietary	
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])
Activator #18 (CAS-No.) Proprietary	
LC50 Fish 1	21.4 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	9.7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 (Algae)	18.8 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
Activator #14 (CAS-No.) Proprietary	
LC50 Fish 1	9.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	17 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	11 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
ErC50 (Algae)	7.6 mg/l
Accelerator #3 (CAS-No.) Proprietary	
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])
Crosslinker #1 (CAS-No.) Proprietary	
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])

12.2. Persistence and Degradability

EnduraFlex™ C924BNG, VE634BNG, VE642BGC, VE645BGC, VE925BNG; Plioweld™ LS533, LS539	
Persistence and Degradability	Not established.

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12.3. Bioaccumulative Potential

EnduraFlex™ C924BNG, VE634BNG, VE642BGC, VE645BGC, VE925BNG; Plioweld™ LS533, LS539	
Bioaccumulative Potential	Not established.
Antidegradant #17 (CAS-No.) Proprietary	
Log Pow	> 2.587 (at 25 °C)
Tackifier #1 (CAS-No.) Proprietary	
Log Pow	4.12 (at 20.5 °C)
Tackifier #7 (CAS-No.) Proprietary	
Log Pow	0.35 (at 25 °C)
Filler #11 (CAS-No.) Proprietary	
BCF Fish 1	(no bioaccumulation expected)
Accelerator #1 (CAS-No.) Proprietary	
Log Pow	1.17
Accelerator #5 (CAS-No.) Proprietary	
Log Pow	4.5
Activator #14 (CAS-No.) Proprietary	
BCF Fish 1	< 20
Log Pow	1.69
Accelerator #3 (CAS-No.) Proprietary	
Log Pow	3.4 (at 22 °C)

12.4. Mobility in Soil

Activator #3 (CAS-No.) Proprietary	
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 contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

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™ C924BNG, VE634BNG, VE642BGC, VE645BGC, VE925BNG; Plioweld™ LS533, LS539	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard Sudden release of pressure hazard
Elastomer #4 (CAS-No.) Proprietary	
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)).
Antidegradant #17 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Elastomer #2 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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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)).
Tackifier #6 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Elastomer #5 (CAS-No.) Proprietary	
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)).
Carbon black (CAS-No.) 1333-86-4	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Filler #13 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Filler #5 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Filler #12 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Filler #10 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Activator #17 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Filler #4 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Plasticizer #1 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Activator #6 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Antidegradant #5 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Tackifier #5 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Tackifier #1 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Tackifier #7 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
SARA Section 313 - Emission Reporting	0.1 %
Filler #2 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Process Aid #1 (CAS-No.) Proprietary	
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)).
Filler #11 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Tackifier #13 (CAS-No.) Proprietary	

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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)).
Activator #1 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Antidegradant #14 (CAS-No.) Proprietary	
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)).
Antidegradant #2 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Antidegradant #18 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Antidegradant #10 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Accelerator #10 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Accelerator #1 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Activator #12 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Activator #3 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Activator #18 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Process Aid #3 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Accelerator #5 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Activator #14 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Accelerator #3 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Crosslinker #1 (CAS-No.) Proprietary	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. US State Regulations

Carbon black (CAS-No.) 1333-86-4	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
Filler #12 (CAS-No.) Proprietary	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
Tackifier #7 (CAS-No.) Proprietary	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
Carbon black (CAS-No.) 1333-86-4	
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	

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U.S. - Pennsylvania - RTK (Right to Know) List
Filler #13 (CAS-No.) Proprietary
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
Filler #5 (CAS-No.) Proprietary
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
Filler #12 (CAS-No.) Proprietary
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
Filler #11 (CAS-No.) Proprietary
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
Filler #10 (CAS-No.) Proprietary
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
Activator #17 (CAS-No.) Proprietary
U.S. - Massachusetts - Right To Know List
Filler #4 (CAS-No.) Proprietary
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
Antidegradant #5 (CAS-No.) Proprietary
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
Tackifier #7 (CAS-No.) Proprietary
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) - Special Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) List
Filler #2 (CAS-No.) Proprietary
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
Filler #11 (CAS-No.) Proprietary
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
Activator #1 (CAS-No.) Proprietary
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
Process Aid #3 (CAS-No.) Proprietary
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List

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U.S. - Pennsylvania - RTK (Right to Know) List

Crosslinker #1 (CAS-No.) Proprietary

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

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

Date of Preparation or Latest Revision : 03/08/2018

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:

Carc. 1B	Carcinogenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Resp. Sens. 1	Respiratory sensitization, 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
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child

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)