

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Date of Issue: 06/20/2017

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixtures Product Name: EnduraFlex™ VE333TN, VE919BN

Document Code: SDS084

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

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

GIIS-05 Classification		
Resp. Sens. 1	H334	
Skin Sens. 1	H317	
Carc. 1B	H350	
Repr. 2	H361	
Full text of hazard classes a	nd H-statements : see section 16	
2.2. Label Elements		
GHS-US Labeling		

Hazard Pictograms (GHS-US)

	GH508
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 all safety precautions have been read and understood.
	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+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.

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P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

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

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. May cause an allergic reaction in sensitive individuals. 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)

1.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

1.32% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

1.32% 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	40.0 - 80.0
Crosslinker #5	(CAS No) Proprietary	10.0 - 30.0
Elastomer #2	(CAS No) Proprietary	5.0 - 20.0
Activator #1	(CAS No) Proprietary	5.0 - 10.0
Carbon black	(CAS No) 1333-86-4	1.0 - 10.0
Accelerator #1	(CAS No) Proprietary	0.1 - 5.0
Filler #12	(CAS No) Proprietary	0.1 - 5.0
Filler #11	(CAS No) Proprietary	0.1 - 5.0
Elastomer #3	(CAS No) Proprietary	0.1 - 1.0
Activator #6	(CAS No) Proprietary	0.1 - 1.0
Activator #3	(CAS No) Proprietary	0.1 - 1.0
Antidegradant #14	(CAS No) Proprietary	0.1 - 1.0
Tackifier #6	(CAS No) Proprietary	0.1 - 1.0
Accelerator #12	(CAS No) Proprietary	0.1 - 1.0
Accelerator #10	(CAS No) Proprietary	0.1 - 1.0
Accelerator #3	(CAS No) Proprietary	0.1 - 1.0
Filler #2	(CAS No) Proprietary	0.1 - 1.0
Crosslinker #1	(CAS No) Proprietary	0.1 - 1.0
Antidegradant #12	(CAS No) Proprietary	0.1 - 1.0
Accelerator #5	(CAS No) Proprietary	< 0.5
Antidegradant #5	(CAS No) Proprietary	< 0.5
Antidegradant #10	(CAS No) Proprietary	< 0.5
Tackifier #1	(CAS No) Proprietary	< 0.5
Antidegradant #13	(CAS No) Proprietary	< 0.5
Activator #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].

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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: 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. Gently wash with plenty of soap and water. 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, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

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. 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: Avoid prolonged contact with eyes, skin and clothing. Do not breathe fumes from fires or vapors from decomposition. Avoid breathing dust. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

6.1.1. For Non-Emergency Personnel

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

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.

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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. Contact competent authorities after a spill.

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 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/m³)	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/m³)	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/m³)	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/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m ³
Filler #12 (CAS No) Proprietary		
USA ACGIH	ACGIH TWA (mg/m³)	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/m³)	15 mg/m ³ (total dust)
Antidegradar	nt #5 (CAS No) Proprietary	
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (fume)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m ³ (fume)
Tackifier #7 (CAS No) Proprietary		
USA ACGIH	ACGIH Ceiling (ppm)	0.3 ppm

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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/m³)	15 mg/m ³ (total dust)
		5 mg/m ³ (respirable fraction)
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/m³)	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/m³ (dust)
USA IDLH	US IDLH (mg/m ³)	500 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ (fume)
		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)

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

Materials for Protective Clothing Hand Protection Eye Protection Skin and Body Protection Respiratory Protection : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



- : Chemically resistant materials and fabrics.
- : Wear protective gloves.
- : Chemical safety goggles.
- : Wear suitable protective clothing.
- : 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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

5.1. Information on basic Physical and Chemin	
Physical State	: Solid
Appearance	: Tan-Black-Tan, Tan
Odor	: No data available
Odor Threshold	: No data available
рН	: 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	: 1-1.06
Density	: 1.27-1.3
Solubility	: Insoluble in water.
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
9.2. Other Information No additional information	on 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

Carbon black (CAS No) 1333-86-4		
LD50 Oral Rat	> 8000 mg/kg	
Filler #12 (CAS No) Proprietary		
LD50 Oral Rat	> 10000 mg/kg	
Antidegradant #5 (CAS No) Proprietary		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rabbit	> 3600 mg/kg	
Tackifier #1 (CAS No) Proprietary		
LD50 Oral Rat	4600 mg/kg	
Tackifier #7 (CAS No) Proprietary		
LD50 Oral Rat	100 mg/kg	
LD50 Dermal Rat	270 mg/kg	
ATE (Gases)	700.00 ppmV/4h	

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Filler #2 (CAS No) Proprietary		
LD50 Oral Rat	> 5000 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	
Antidegradant #12 (CAS No) Proprietary		
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	
Antidegradant #13 (CAS No) Proprietary		
LD50 Oral Rat	> 15 g/kg	
LD50 Dermal Rabbit	> 5 g/kg	
LC50 Inhalation Rat	2.18 mg/l/4h	
Accelerator #12 (CAS No) Proprietary		
LD50 Oral Rat	4300 mg/kg	
LD50 Dermal Rabbit	> 5010 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 #1 (CAS No) Proprietary		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rat	> 2000 mg/kg	
Activator #3 (CAS No) Proprietary		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rat	> 2000 mg/kg	
Accelerator #5 (CAS No) Proprietary		
LD50 Oral Rat	> 12 g/kg	
LD50 Dermal Rabbit	> 7940 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	
Skin Corrosion/Irritation: Not classified		

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

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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 #11 (CAS No) Proprietary		
IARC group	3	
Filler #12 (CAS No) Proprietary		
IARC group	2B	
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.	
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.		
Reproductive Toxicity: Suspected of damaging fertility or the unborn child.		

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) 1333-86-4		
EC50 Daphnia 1	5600 mg/l (Exposure time: 24 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])	
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])	
Antidegradant #14 (CAS No) Proprietary		
EC50 Daphnia 1	56 mg/l (Exposure time: 48 h - Species: Daphinia magna [static])	
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	
Antidegradant #12 (CAS No) Proprietary		
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])	

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Antidegradant #13 (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)	
Accelerator #12 (CAS No) Proprietary	·	
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])	
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 #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)	
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	У	
EnduraFlex [™] VE333TN, VE919BN	·	
Persistence and Degradability Not established.		
12.3. Bioaccumulative Potential		
EnduraFlex™ VE333TN, VE919BN		
Bioaccumulative Potential Not established.		
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)		
Accelerator #1 (CAS No) Proprietary		
Log Pow	1.17	
Accelerator #5 (CAS No) Proprietary		
Log Pow 4.5		
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.		

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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™ VE333TN, VE919BN	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Delayed (chronic) health hazard
	Fire hazard
	Sudden release of pressure hazard
Elastomer #2 (CAS No) Proprietary	
Listed on the United States TSCA (Toxic Substance	es 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)).
Tackifier #6 (CAS No) Proprietary	
Listed on the United States TSCA (Toxic Substance	es Control Act) inventory
Carbon black (CAS No) 1333-86-4	
Listed on the United States TSCA (Toxic Substance	es Control Act) inventory
Filler #12 (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 #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 (Tavi

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

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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	
Antidegradant #14 (CAS No) Proprietary	
Listed on the United States TSCA (Toxic Substances Contr	ol 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 #18 (CAS No) Proprietary

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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
Antidegradant #12 (CAS No) Proprietary
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Antidegradant #13 (CAS No) Proprietary
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Accelerator #12 (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 #1 (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
Accelerator #5 (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
Activator #17 (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 Hazardo	us Substances
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 #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	

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Antidegradant #5 (CAS No) Proprietary	
U.S Massachusetts - Right To Know List	
U.S New Jersey - Right to Know Hazardous Subst	tance 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 Subs	tance List
U.S Pennsylvania - RTK (Right to Know) - Enviror	imental 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 Subs	tance List
U.S Pennsylvania - RTK (Right to Know) List	
Antidegradant #13 (CAS No) Proprietary	
U.S Massachusetts - Right To Know List	
Activator #1 (CAS No) Proprietary	
U.S Massachusetts - Right To Know List	
U.S New Jersey - Right to Know Hazardous Subs	tance List
U.S Pennsylvania - RTK (Right to Know) - Enviror	imental Hazard List
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 Subs	tance List
U.S Pennsylvania - RTK (Right to Know) List	
Activator #17 (CAS No) Proprietary	
U.S Massachusetts - Right To Know List	
ECTION 16: OTHER INFORMATION, INCLU	JDING DATE OF PREPARATION OR LAST REVISION
Date of Preparation or Latest Revision	: 06/20/2017
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)