

# SAFETY DATA SHEET

## Borlink™ LE0315

Version 4.0

Revision Date 08/21/2019

Former date 05/18/2017

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Borlink LE0315

#### Manufacturer or supplier's details

Supplier : Borealis Compounds Inc  
176 Thomas Road, NJ 07865 Port Murray, United States of America (USA)  
Telephone: +1 908 850 6200

E-mail address : [sds@borealisgroup.com](mailto:sds@borealisgroup.com)

Emergency telephone number : Borealis Compounds Inc, William E Wallace: +1 908 850 6243  
+1 215 207 0061 (regional number, NCEC Carechem 24)

#### Recommended use of the chemical and restrictions on use

Recommended use : raw material for plastics industry

Restrictions on use : Use only according to our recommendations.

Prepared by : Borealis, Group Product Stewardship / Maarit Vakkala

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

|| Not a hazardous substance or mixture.

#### GHS label elements

|| Not a hazardous substance or mixture.

#### Other hazards

The product burns, but is not classified as flammable.

Prolonged skin contact may give skin irritation caused by the peroxide content present on the surface of the granules.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : The product is an elastomer modified polyethylene copolymer.

#### Hazardous components

Chemical name	CAS-No.	Concentration (%)
carbon black	1333-86-4	>= 30 - < 60
paraffin waxes and hydrocarbon waxes	8002-74-2	>= 1 - < 5
tert-butyl $\alpha$ , $\alpha$ -dimethylbenzyl peroxide	3457-61-2	>= 1 - < 5

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Actual concentration or concentration range is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

If inhaled	: Move to fresh air in case of accidental inhalation of vapours or decomposition products.
In case of skin contact	: Cool melted product on skin with plenty of water. Do not remove solidified product.
In case of eye contact	: Rinse with water. If eye irritation persists, consult a specialist.
If swallowed	: Rinse mouth with water. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.  Skin contact may provoke the following symptoms: Local irritation
Protection of first-aiders	: No special precautions are necessary for first aid responders.
Notes to physician	: Treat symptomatically. No specific instructions needed.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water in spread jet, dry chemicals, foam or carbon dioxide.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Principal toxicant in the smoke is carbon monoxide.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Ensure adequate ventilation. Use personal protective equipment.
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- Environmental precautions : Prevent product from entering environment and drains.
- Methods and materials for containment and cleaning up : Vacuum or sweep up spill.  
All spill of material must be removed immediately to prevent slipping accidents.

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Dust from the product gives a potential risk for dust explosion.  
All equipment shall be grounded.
- Advice on safe handling : During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.  
Provide adequate ventilation.  
Local exhaust ventilation may be necessary.  
Avoid inhalation of dust and decomposition fumes.  
Avoid contact with skin and eyes.
- Conditions for safe storage : Safety aspects do not require any special precautions in terms of storage.
- Further information on storage stability : Keep in a dry place.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
carbon black	1333-86-4	TWA	3.5 mg/m <sup>3</sup>	CA AB OEL
		TWAEV	3.5 mg/m <sup>3</sup>	CA QC OEL
		TWA (Inhalable)	3 mg/m <sup>3</sup>	CA BC OEL
		TWA (Inhalable fraction)	3 mg/m <sup>3</sup>	ACGIH
paraffin waxes and hydrocarbon waxes	8002-74-2	TWA (Fumes)	2 mg/m <sup>3</sup>	CA AB OEL
		TWA (Fumes)	2 mg/m <sup>3</sup>	CA BC OEL
		TWAEV (Fumes)	2 mg/m <sup>3</sup>	CA QC OEL
		TWA (Fumes)	2 mg/m <sup>3</sup>	ACGIH

- Engineering measures : Provide adequate ventilation.

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Local exhaust ventilation may be necessary.

### Personal protective equipment

Respiratory protection : In case of dust development use dust mask.

Filter type : Particulates type

### Hand protection

Material : neoprene

Break through time : > 480 min

Glove thickness : 0.2 mm

Remarks : Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Long sleeved clothing

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Regular cleaning of equipment, work area and clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and immediately after handling the product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : pellets

Colour : black

Odour : odourless

Odour Threshold : Not applicable

pH : Not applicable insoluble

Melting range : 100 - 140 °C

Boiling range : Decomposes on heating.

Flash point : Not applicable (solid)

Evaporation rate : Not applicable (solid)

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Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable (solid)
Density	: 1.1 - 1.2 g/cm <sup>3</sup>
Bulk density	: No data available
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: Not applicable insoluble
Auto-ignition temperature	: > 320 °C
Viscosity	
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: The product is a stable thermoplastic with no chemical reactivity below 140°C. Above 140°C the intended crosslinking reaction occurs.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: Strong oxidizing agents Strong reducing agents Strong acids and strong bases
Hazardous decomposition products	: Under fire conditions: Carbon monoxide

During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Product:**

Remarks: Prolonged skin contact may give skin irritation caused by the peroxide content present on the surface of the granules.

**Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

**Product:**

Remarks: Contact with eyes may cause irritation.

**Respiratory or skin sensitisation**

**Skin sensitisation**

Based on available data, the classification criteria are not met.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**ACGIH** Confirmed animal carcinogen with unknown relevance to humans

carbon black

1333-86-4

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration toxicity**

Based on available data, the classification criteria are not met.

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### Further information

#### Product:

Remarks: Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract. However, as the chemical is embedded in a solid polymer, exposure is unlikely, unless the polymer is processed in a way that makes such exposure possible.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Not readily biodegradable.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Does not accumulate in organisms.

### Mobility in soil

#### Product:

Mobility : Remarks: The product is insoluble and sinks in water.  
Not expected to adsorb on soil.

### Other adverse effects

#### Product:

Additional ecological information : The product is not considered hazardous for the environment.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product may be safely used as fuel.  
Proper combustion does not require any special flue gas control.  
Check with local regulations.

Contaminated packaging : Reuse or recycle if not contaminated.



Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### TDG

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

**Canadian PBT Chemicals** : This product does not contain any components on the DSL that are classified as Persistent, Bioaccumulative and Toxic (PBT) under CEPA.

**NPRI** :  
**NPRI Components** : zinc compounds

### SECTION 16. OTHER INFORMATION

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Sources of key data used to compile the Safety Data Sheet : The classification information of components is based on raw material supplier data.

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