

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Borlink™ LE0315**

Version 3.1

Revision Date: 06.03.2023

Former date: 01.09.2016

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : Borlink LE0315

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Raw material for plastics industry  
Substance/Mixture : Raw material for plastics industry

### 1.3 Details of the supplier of the safety data sheet

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

### 1.4 Emergency telephone number

+44 (0) 1235 239 670 (NCEC Carechem 24)

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### 2.2 Label elements

#### Additional Labelling

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The product burns, but is not classified as flammable.  
Dust from the product gives a potential risk for dust explosion.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : The product is an elastomer modified polyethylene copolymer.  
It contains carbon black.

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
poly(2,2,4-trimethyl-1,2-dihydroquinoline)	26780-96-1 500-051-3 01-2119486783-23	Aquatic Chronic 3; H412	>= 1 - < 2,5
tert-butyl $\alpha$ , $\alpha$ -dimethylbenzyl peroxide	3457-61-2 222-389-8 617-007-00-5 01-2119969063-35	Org. Perox. E; H242 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	>= 1 - < 2,5

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

If inhaled : Move to fresh air.

||| Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In case of skin contact : If molten material comes in contact with the skin, cool with plenty of water. DO NOT remove solidified product, as removal could result in severe tissue damage. Obtain medical attention.

Wash off with plenty of water.  
Call a physician if irritation develops or persists.

If molten material comes in contact with the skin, cool with plenty of water. DO NOT remove solidified product, as removal could result in severe tissue damage. Obtain medical attention.

In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.



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If swallowed : Flush eyes with water as a precaution.  
: Rinse mouth with water.  
Consult a physician if necessary.  
Rinse mouth with water.

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

Symptoms : 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.

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.

Risks : May cause an allergic skin reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.  
No specific instructions needed.  
Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water in spread jet, dry chemicals, foam or carbon dioxide.  
Water in spread jet, dry chemicals, foam or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Principal toxicant in the smoke is carbon monoxide.  
Principal toxicant in the smoke is carbon monoxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.  
Wear self-contained breathing apparatus and protective suit.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.  
Ensure adequate ventilation.  
Ensure adequate ventilation.  
Use personal protective equipment.

#### 6.2 Environmental precautions

Should not be released into the environment.

Prevent product from entering environment and drains.

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

#### 6.3 Methods and material for containment and cleaning up

Vacuum or sweep up spill.  
All spill of material must be removed immediately to prevent slipping accidents.  
Recycle or dispose loose material properly.  
Do not flush into surface water or sanitary sewer system.

Vacuum or sweep up spill.  
All spill of material must be removed immediately to prevent slipping accidents.

#### 6.4 Reference to other sections

For personal protection see section 8.  
For personal protection see section 8.  
For disposal considerations see section 13.  
For disposal considerations see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

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.

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Avoid inhalation of dust and decomposition fumes.  
Avoid contact with skin and eyes.

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Advice on protection against fire and explosion : Dust from the product gives a potential risk for dust explosion. All equipment shall be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Dust from the product represents a risk for dust explosions when dispersed with air in a sufficient concentration and with the presence of an ignition source. All equipment shall be grounded. Routine housekeeping will also contribute in preventing risks of dust explosions.

Hygiene measures : When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

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.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Safety aspects do not require any special precautions in terms of storage.

Safety aspects do not require any special precautions in terms of storage.

Further information on storage stability : Keep in a dry place.



Keep in a dry place.

### 7.3 Specific end use(s)

Specific use(s) : Raw material for wire and cable applications.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

For national exposure limit (OEL) values, check country specific safety data sheets.

For national exposure limit (OEL) values, check country specific safety data sheets., Carbon black has a workplace exposure limit in some European countries, but is not classified as hazardous., 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.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Borlink LE0315				
Remarks:	Not applicable			

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Borlink LE0315		
Remarks:	Not applicable	

#### 8.2 Exposure controls

##### Engineering measures

Provide adequate ventilation.

Local exhaust ventilation may be necessary.

Provide adequate ventilation.

Local exhaust ventilation may be necessary.

##### Personal protective equipment

Eye protection : Safety glasses

Tightly fitting safety goggles

Use eye protection according to EN 166.

Hand protection

Material : neoprene

Break through time : > 480 min

Glove thickness : 0,2 mm

Remarks : Protective gloves complying with EN 374.  
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.

Skin and body protection : Protective clothing



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- Long sleeved clothing
- Respiratory protection : In case of insufficient ventilation: Respirator with ABEK-P3 filter or self-contained breathing apparatus.
- Protective measures : Appropriate personal protective equipment (PPE) shall be worn in accordance with Regulation (EU) 2016/425.

### Environmental exposure controls

- General advice : Should not be released into the environment.  
Prevent product from entering environment and drains.  
It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : pellets
- Colour : black
- Odour : odourless
- Odour Threshold : Not applicable
- Melting point/range : 100 - 140 °C
- Boiling range : Decomposes on heating.  
Decomposes on heating.
- Flammability : The product is not flammable.  
The product is not flammable.
- Upper explosion limit / Upper flammability limit : Not applicable  
Not applicable
- Lower explosion limit / Lower flammability limit : Not applicable  
Not applicable
- Flash point : Not applicable, (solid)

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		Not applicable, (solid)
Auto-ignition temperature	:	> 320 °C
pH	:	Not applicable insoluble
		Not applicable insoluble
Viscosity		
Viscosity, kinematic	:	No data available
		No data available
Solubility(ies)		
Water solubility	:	insoluble
		insoluble
Partition coefficient: n-octanol/water	:	Not applicable insoluble
		Not applicable insoluble
Vapour pressure	:	Not applicable (solid)
		Not applicable (solid)
Density	:	1,1 - 1,2 g/cm <sup>3</sup>
Bulk density	:	No data available
Particle size	:	3 - 10 mm
		Method: Image analysis (surface-based)

### 9.2 Other information

Explosives	:	Not explosive
		Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
		The substance or mixture is not classified as oxidizing.
Evaporation rate	:	Not applicable



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(solid)

Not applicable  
(solid)

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Stable under recommended storage conditions.

Stable under recommended storage conditions.

#### 10.2 Chemical stability

The product is a stable thermoplastic, with no chemical reactivity.

The product is a stable thermoplastic with no chemical reactivity below 140°C. Above 140°C the intended crosslinking reaction occurs.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

None known.

#### 10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

Extremes of temperature and direct sunlight.

#### 10.5 Incompatible materials

Materials to avoid : None known.

Strong oxidizing agents  
Strong reducing agents  
Strong acids and strong bases

#### 10.6 Hazardous decomposition products

Under fire conditions:

Carbon monoxide

Under fire conditions:

Carbon monoxide

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

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

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Not classified based on available information.

##### Skin corrosion/irritation

Not classified based on available information.

##### 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

Not classified based on available information.

##### Product:

Remarks : Contact with eyes may cause irritation.

##### Respiratory or skin sensitisation

##### Skin sensitisation

May cause an allergic skin reaction.

##### Respiratory sensitisation

Not classified based on available information.

##### Germ cell mutagenicity

Not classified based on available information.

##### Carcinogenicity

Not classified based on available information.

##### Reproductive toxicity

Not classified based on available information.

##### STOT - single exposure

Not classified based on available information.

##### STOT - repeated exposure

Not classified based on available information.

##### Aspiration toxicity

Not classified based on available information.

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

##### Product:

Remarks : The product is not classified as hazardous to human health. Information given is based on data of the components.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **poly(2,2,4-trimethyl-1,2-dihydroquinoline):**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 56 mg/l  
Exposure time: 48 h

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: Not readily biodegradable.  
Remarks: Not readily biodegradable.

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Does not accumulate in organisms.  
Remarks: Does not accumulate in organisms.

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: Not expected to adsorb on soil.

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

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : Should not be released into the environment.

The product is not classified as hazardous for the environment.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of contents/ container to an approved waste disposal plant.  
Reuse or recycle if not contaminated.  
Check with local regulations.

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

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



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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

#### 14.1 UN number or ID number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR  
Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

#### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

#### Other regulations:

No data available

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### 15.2 Chemical safety assessment

no  
no

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## SECTION 16: Other information

### Full text of H-Statements

H242 : Heating may cause a fire.  
H315 : Causes skin irritation.  
H411 : Toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Org. Perox. : Organic peroxides  
Skin Irrit. : Skin irritation

### Further information

Other information : Issued according to Regulation (EC) No 1907/2006, Annex II, and its amendments.  
Changes since the last version are highlighted in the margin.  
This version replaces all previous versions.

Issuer : Borealis, Group Product Stewardship / Maarit Vakkala

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

### Disclaimer