Borlink™ LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Borlink LE0500

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

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

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves.

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Borlink LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

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

attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

The product burns, but is not classified as flammable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : The product is a polyethylene copolymer.

It contains carbon black.

Hazardous components

Chemical name	CAS-No.	Concentration (%)
carbon black	1333-86-4	>= 30 - < 60
1,4-dihydroxy-2,5-di(1,1-dimethylethyl)benzene	88-58-4	>= 0.1 -< 1

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 dust or

fumes from overheating or combustion.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and 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

pienty of water. DO NOT remove solidilled product, as

removal could result in severe tissue damage.

Obtain medical attention.

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : Rinse mouth with water.

Most important symptoms : Inhalation of dust may irritate the respiratory tract.



Borlink LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

and effects, both acute and

delaved

Prolonged inhalation of high doses of decomposition products

may give headache or irritation of the respiratory tract.

May cause an allergic skin reaction.

Notes to physician : Treat symptomatically.

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.

for firefighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Ensure adequate ventilation.

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 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.

Advice on safe handling During processing and thermal treatment of the product, small

amounts of volatile hydrocarbons may be released. Avoid inhalation of dust and decomposition fumes.

Safety aspects do not require any special precautions in terms Conditions for safe storage

of storage.



Borlink LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

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/m3	CA AB OEL
		TWAEV	3.5 mg/m3	CA QC OEL
		TWA (Inhalable)	3 mg/m3	CA BC OEL
		TWA (Inhalable particulate matter)	3 mg/m3	ACGIH

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.

Engineering measures : Provide adequate ventilation.

Local exhaust ventilation may be necessary.

Personal protective equipment

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

In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

PVC or other plastic material gloves

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 : Safety glasses

Skin and body protection : Protective clothing

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.



Borlink LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : pellets

Colour : black

Odour : odourless

pH : Not applicable insoluble

Melting range : 100 - 140 °C

Boiling range : Decomposes on heating.

Flash point : Not applicable (solid)

Evaporation rate : Not applicable (solid)

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/cm³

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 : Not applicable (solid)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.



Borlink LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

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

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.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

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.



Borlink LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

Aspiration toxicity

Not classified based on available information.

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 % saturated

solution

Exposure time: 48 h Test Type: Immobilization

Method: OECD Test Guideline 202

Remarks: No effect up to the limit of solubility.

: ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 Toxicity to algae

> % saturated solution End point: Growth rate Exposure time: 72 h

Test Type: Growth inhibition Method: OECD Test Guideline 201

Remarks: No effect up to the limit of solubility.

LOEC (Pseudokirchneriella subcapitata (green algae)): > 100

% saturated solution Method: calculated

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

: LOEC (Daphnia magna (Water flea)): > 100 % saturated

solution

Method: calculated

Remarks: No effect up to the limit of solubility.

Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not accumulate in organisms.



Borlink LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

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 classified as hazardous for the

environment.

Information given is based on tests on the mixture itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Reuse or recycle if not contaminated.

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.

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



Borlink LE0500

Version 4.0 Revision Date 02/19/2020 Former date 08/23/2019

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 contains the following components on the DSL

that are classified as Persistent, Bioaccumulative and/or Toxic

(PBT) under CEPA:

1,4-bis[1-(tert-butylperoxy)-1-methylethyl]benzene

NPRI : Canadian National Pollutant Release Inventory (NPRI): No

component is listed on NPRI.

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

Information given is based on tests on the mixture itself., The classification information of components is based on raw

material supplier data.

Revision Date : 02/19/2020

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