Borlink™ LE0500

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SECTION 1. IDENTIFICATION

Product name : Borlink LE0500 Other means of identification : No data available

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 +1 866 519 4752 (3E) Access code: 336296Borealis

number Compounds Inc, Borealis North America HSE: 908-850-6200

for Monday - Friday 8-4:30pm excluding holidays

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.

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.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves.

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

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reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Chemical nature The product is a polyethylene copolymer.

It contains carbon black.

Components

Chemical name	Common	CAS-No.	Concentration (% w/w)
	Name/Synonym		
carbon black	carbon black	1333-86-4	>= 30 - < 60 *
2,5-di-tert-	2,5-di-tert-	88-58-4	
butylhydroquinone	butylhydroquino		>= 0.1 - < 1 *
	ne		

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled Move to fresh air.

If symptoms persist, call a physician.

Wash off with soap and plenty of water. In case of skin contact

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.

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

Get medical attention if irritation develops and persists.

Rinse mouth with water. If swallowed

Consult a physician if necessary.

Most important symptoms

Inhalation of dust may irritate the respiratory tract.

and effects, both acute and delayed

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

May cause an allergic skin reaction.

Treat symptomatically. Notes to physician

No specific instructions needed.

SECTION 5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing High volume water jet





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media

Specific hazards during

Special protective equipment:

firefighting

Principal toxicant in the smoke is carbon monoxide.

Wear self-contained breathing apparatus and protective suit.

for firefighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

Ensure adequate ventilation.

Environmental precautions : Should not be released into the environment.

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

plastics in to the environment.

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.

Recycle or dispose loose material properly.

Do not flush into surface water or sanitary sewer system.

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.

Routine housekeeping should be instituted to ensure that

dusts do not accumulate on surfaces.

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	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
carbon black	1333-86-4	TWA	3.5 mg/m3	CA AB OEL

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TWA (Inhalable)	3 mg/m3	CA BC OEL
TWAEV (inhalable dust)	3 mg/m3	CA QC 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.

Provide adequate ventilation. **Engineering measures**

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.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators. The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Hand protection

Remarks 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

Handle in accordance with good industrial hygiene and safety Hygiene measures

practice.

When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance pellets

Colour black

Odour odourless

Ha Not applicable insoluble

100 - 140 °C Melting point/range



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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 / Upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability 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 : No data available

Explosive properties : Not explosive

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

Particle size : 3 - 6 mm

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : The product is a stable thermoplastic, with no chemical

reactivity.

Possibility of hazardous

reactions

None known.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : None known.

Hazardous decomposition : Under fire conditions: products : Carbon monoxide

During processing and thermal treatment of the product, small



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amounts of volatile hydrocarbons may be released.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

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.

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.

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.



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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.

Toxicity to algae/aquatic

plants

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

% 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.

Mobility in soil

Product:

Mobility : Remarks: Not expected to adsorb on soil.

Remarks: The product is insoluble and sinks in water.

Other adverse effects

Product:



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Additional ecological

information

: Should not be released into the environment.

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 : Dispose of contents/ container to an approved waste disposal

plant.

Reuse or recycle if not contaminated.

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

Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN,

IMDG-Code, ICAO/IATA-DGR

SECTION 15. REGULATORY INFORMATION

Canadian PBT Chemicals : This product contains the following components on the DSL

that are classified as Persistent, Bioaccumulative and/or Toxic

(PBT) under CEPA:

[1,3(or 1,4)-phenylenebis(1-methylethylidene)]bis[tert-butyl]

peroxide



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

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.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA QC OEL : Québec. Regulation respecting occupational health and

safety, Schedule 1, Part 1: Permissible exposure values for

airborne contaminants

ACGIH / TWA : 8-hour, time-weighted average
CA AB OEL / TWA : 8-hour Occupational exposure limit
CA BC OEL / TWA : 8-hour time weighted average

CA QC OEL / TWAEV : Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations



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Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Issued according to HPR (WHMIS 2015).

Sources of key data used to compile the Safety Data

Sheet

The classification information of components is based on raw

material supplier data.

Information given is based on tests on the mixture itself., Information given is based on data of the components.

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Disclaimer

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