Borlink[™] LE4244S

Version 1.0	Revision Date 04/26/2024	Former date -	
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION			
Product name	: Borlink LE4244S		
Manufacturer or supplier's	details		
Supplier	: Borealis Compounds Inc 176 Thomas Road, NJ 07865 Port Murray, America (USA) Telephone: +1 908 850 6200	, United States of	
E-mail address	: <u>sds@borealisgroup.com</u>		
Emergency telephone number	+52 55 41696225 (3E), Access code: 3362 Compounds Inc, Borealis North America H for Monday – Friday 8-4:30pm excluding h	ISE: 908-850-6200	

Recommended use of the chemical and restrictions on use

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin irritation	:	Category 3
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1B
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust. P272 Contaminated work clothing should not be allowed out of the workplace.

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	P280 Wear protective gloves/ protective c face protection.	othing/ eye protection/
	Response:	
	P302 + P352 IF ON SKIN: Wash with pler	itv of water.
	P308 + P313 IF exposed or concerned: G attention.	
	P333 + P313 If skin irritation or rash occur	s: Get medical advice/
	attention. P362 + P364 Take off contaminated clothi	ing and wash it before
	reuse.	ng and wash it before
	Storage:	
	P405 Store locked up.	
	Disposal:	
	P501 Dispose of contents/ container to an disposal plant.	approved waste
Other hazards		
The product burns, but is not cl	assified as flammable.	
0		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	The product is a polyethylene polymer.

Components

Chemical name	CAS-No.	Concentration (% w/w)
bis(α , α -dimethylbenzyl) peroxide	80-43-3	>= 1 -< 5
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	>= 0.1 -< 1

SECTION 4. FIRST AID MEASURES

If inhaled	 Move to fresh air in case of accidental inhalation of vapours of decomposition products. Seek medical advice immediately. 	or
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 removal could result in severe tissue damage. Obtain medical attention.	
In case of eye contact	: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.	
If swallowed	 If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. 	
Most important symptoms and effects, both acute and	: Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products	S

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deleved	mou sive headache ar irritation of the room	siratory tract
delayed	may give headache or irritation of the resp Causes mild skin irritation.	nratory tract.
	May cause an allergic skin reaction.	
	May damage fertility or the unborn child.	
Notes to physician	: Treat symptomatically.	
	No specific instructions needed.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media	:	Water in spread jet, dry chemicals, foam or carbon dioxide. High volume water jet
Specific hazards during firefighting	:	Principal toxicant in the smoke is carbon monoxide.
0 0	:	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	:	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.
Hygiene measures	:	When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
Conditions for safe storage	:	Store locked up.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
6,6'-di-tert-butyl-4,4'-thiodi-m- cresol	96-69-5	VLE-PPT	10 mg/m3	NOM-010- STPS-2014
		VLE-PPT	10 mg/m3	NOM-010- STPS-2014
		TWA (Inhalable particulate matter)	1 mg/m3	ACGIH
Engineering measures		uate ventilation. t ventilation may	be necessary.	
Personal protective equipmen	t			
Respiratory protection :	In the case of approved filte When workers limit they mus The filter clas maximum exp (gas/vapour/a handling the p	r. s are facing cond t use appropriat s for the respirat pected contamina terosol/particulat	n use a respirator wit centrations above the e certified respirators or must be suitable for ant concentration es) that may arise who oncentration is exceed	exposure or the nen
Hand protection Material :	Neoprene			
Material :	Nitrile rubber			
Remarks :	breakthrough gloves. Also t conditions un danger of cuts	time which are p ake into conside der which the pro s, abrasion, and	ns regarding permeab provided by the suppl ration the specific loc oduct is used, such a the contact time.	ier of the al
Eye protection : Skin and body protection :	Safety glasse Protective clo			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	pellets
Colour	:	natural colour



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Odour	:	odourless	
рН	:	Not applicable insoluble	
Melting point/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 / Upper flammability limit	:	Not applicable	
Lower explosion limit / Lower flammability limit	:	Not applicable	
Vapour pressure	:	Not applicable (solid)	
Density	:	0.9 - 1.0 g/cm³	
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 oxidizi	ng.
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 below 140°C. Above 140°C the intended
	crosslinking reaction occurs.
Possibility of hazardous reactions	: None known.



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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 amounts of volatile hydrocarbons may be relea	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Skin corrosion/irritation

Causes mild skin irritation.

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

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

May damage fertility or the unborn child.

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.



Borlink LE4244S Version 1.0 Revision Date 04/26/2024 Former date -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. **SECTION 12. ECOLOGICAL INFORMATION** Ecotoxicity Product: Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): aquatic invertebrates Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes Remarks: No effect up to the limit of solubility. Read-across (Analogy) Toxicity to algae/aquatic NOEC (Pseudokirchneriella subcapitata (green algae)): End point: Growth rate plants Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes Remarks: No effect up to the limit of solubility. Read-across (Analogy) **Components:**

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol:			
Toxicity to fish :	LC50 (fathead minnow (Pimephales promelas)): 0.36 mg/l Exposure time: 96 h		
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 0.16 mg/l Exposure time: 48 h		
Persistence and degradability			

Product:

Biodegradability

: Remarks: Not readily biodegradable.



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Bioaccumulative potentia	al	
Product:		
Bioaccumulation	: Remarks: Does not accumulate in organisms	5.
Components:		
bis(α,α-dimethylbenzyl)	peroxide:	
Bioaccumulation	: Bioconcentration factor (BCF): 137 - 1,470 Exposure time: 56 d Temperature: 25 °C Concentration: 0.01 mg/l	
Mobility in soil		
Product:		
Mobility	: Remarks: Not expected to adsorb on soil.	
	Remarks: The product is insoluble and floats	s on water.
Other adverse effects		
Product:		
Additional ecological information	: Should not be released into the environment	
	The product is not classified as hazardous for	or the
	environment.	ree with similar
	Information given is based on tests on mixtu compositions.	res with similar

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of contents/ container to an approved waste disposal plant. Check with local regulations.
Contaminated packaging	:	Dispose of as unused product. 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



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IATA-DGR				
Not regulated as a dan	gerous good			
IMDG-Code Not regulated as a dangerous good				
Transport in bulk according to the second se	ording to Annex II of MARPOL 73/78 and the IBC Code uct as supplied.			
National Regulations				
NOM-002-SCT Not regulated as a dam	gerous good			
Special precautions for	or user			
Remarks	: Not dangerous goods in the meaning of ADR/R	ID, ADN,		

IMDG-Code, ICAO/IATA-DGR

SECTION 15. REGULATORY INFORMATION

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

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

No data available

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH NOM-010-STPS-2014	USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Control - Appendix 1 Occupational Exposure Limits
ACGIH / TWA NOM-010-STPS-2014 / VLE- PPT	8-hour, time-weighted average Time weighted average limit 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



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

Issued according to Regulation NOM-018-STPS-2015 and its amendments.

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 mixtures with similar compositions., Information given is based on data of the components.
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