

# SAFETY DATA SHEET

**LE6022**

Version 3.0

Revision Date 07/30/2020

Former date 01/22/2019

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LE6022

### 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, Borealis North America HSE: 908-850-6200 for Monday – Friday 8-4:30pm excluding holidays  
+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.

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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with 29 CFR 1910.1200

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 must not be allowed out of the workplace.

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P280 Wear protective gloves.

**Response:**

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

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

P363 Wash contaminated clothing before reuse.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

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.

The product burns, but is not classified as flammable.

Warning!

May form combustible dust concentrations in air (during processing).

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : The product is a polyethylene polymer.

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
carbon black	1333-86-4	>= 1 - < 5
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	>= 0.1 - < 1

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## SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.  
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.

Cool melted product on skin with plenty of water. Do not remove solidified product.

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

If swallowed : Clean mouth with water and drink afterwards plenty of water.

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.

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May cause an allergic skin reaction.

Notes to physician : Treat symptomatically.  
No specific instructions needed.

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## SECTION 5. FIREFIGHTING MEASURES

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

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

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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

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## 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.

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Non-sparking tools should be used.

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## SECTION 7. HANDLING AND STORAGE

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

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- 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.
- Wear suitable gloves.
- 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>	NIOSH REL
		TWA	3.5 mg/m <sup>3</sup>	OSHA Z-1
		TWA	3.5 mg/m <sup>3</sup>	OSHA P0
		TWA	0.1 mg/m <sup>3</sup> (PAHs)	NIOSH REL
		TWA (Inhalable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	PEL	3.5 mg/m <sup>3</sup>	CAL PEL
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable particulate matter)	1 mg/m <sup>3</sup>	ACGIH
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0
TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0		

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		PEL (Total dust)	10 mg/m3	CAL PEL
		PEL (respirable dust fraction)	5 mg/m3	CAL PEL

However, as the chemicals are 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.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

## Personal protective equipment

Respiratory protection : In case of insufficient ventilation:  
Respirator with combination filter for vapour/particulate

Hand protection  
Material : PVC or other plastic material gloves

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 : Safety glasses

Skin and body protection : Protective clothing

Hygiene measures : 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  
Odour Threshold : Not applicable

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pH	:	No data available
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	:	0.927 - 0.935 g/cm <sup>3</sup>
Bulk density	:	500 - 600 kg/m <sup>3</sup>
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.
Possibility of hazardous reactions	:	None known.
Conditions to avoid	:	None known.

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Incompatible materials : None known.

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

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

### 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.

##### IARC

Group 2B: Possibly carcinogenic to humans

carbon black

1333-86-4

##### OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

##### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### 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.

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## 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

#### 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 : EC50 (*Daphnia magna* (Water flea)): 0.16 mg/l  
aquatic invertebrates : Exposure time: 48 h

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Not readily biodegradable.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Bioaccumulation not expected.

### Mobility in soil

#### Product:

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

### Other adverse effects

#### Product:

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



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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : This substance, when discarded or disposed of is not specifically listed as a hazardous waste in Federal regulations. However, it could be hazardous if it is considered toxic, corrosive, ignitable or reactive according to Federal definitions (40 CFR 261). Additionally, it could be designated as hazardous waste if it is mixed with or comes in contact with a hazardous waste. If such contact or mixing may have occurred, check 40 CFR 261 to determine whether it is a hazardous waste.  
The transportation, storage, treatment and disposal of this waste material must be conducted in accordance with all applicable Federal, state and 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

#### 49 CFR

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

In accordance with Hazard Communication Standard 2012 (29 CFR 1910.1200), the product does not need to be classified nor labelled.

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Borealis certifies that all chemical substances in this shipment comply with all applicable rules or orders under TSCA and that Borealis is not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

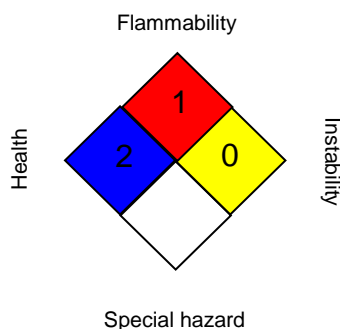
### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



#### HMIS® IV:

<b>HEALTH</b>	<input type="text"/>	<input type="text"/>
<b>FLAMMABILITY</b>	<input type="text"/>	
<b>PHYSICAL HAZARD</b>	<input type="text"/>	

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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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