### Visico™ LE4437

Version 4.0 Revision Date 12/30/2021 Former date 07/30/2020

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Visico LE4437

#### Manufacturer or supplier's details

: 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, 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

Raw material for plastics industry

Restrictions on use : Use only according to our recommendations.

Use only according to our recommendations.

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity

- repeated exposure

Category 1 (Immune system)

Long-term (chronic) aquatic

hazard

Category 3

**GHS** label elements

Hazard pictograms





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Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.

H360D May damage the unborn child.

H372 Causes damage to organs (Immune system) through

prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

P273 Avoid release to the environment.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P308 + P313 IF exposed or concerned: Get medical advice/

attention.

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

attention.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

During crosslinking reaction in combination with base resin: methanol (Flam. Liq. 2; H225, Acute Tox. 3; H301, Acute Tox. 3; H311, Acute Tox. 3; H331, STOT SE 1; H370 - see chapter 16) is released.

In contact with water or moisture methanol will be released.

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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The product burns, but is not classified as flammable.



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During crosslinking reaction in combination with catalyst masterbatch: methanol (Flam. Liq. 2; H225, Acute Tox. 3; H301, Acute Tox. 3; H311, Acute Tox. 3; H331, STOT SE 1; H370 - see chapter 16) may be released.

In contact with water or moisture methanol will be released.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Mixture

Chemical nature : The product is a polyethylene copolymer.

It contains stabilisers.

#### **Hazardous components**

Chemical name	CAS-No.	Concentration (%)
dioctyltin dilaurate	3648-18-8	>= 1 - < 5
1h-benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	94270-86-7	>= 1 - < 5
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	>= 1 - < 5
zinc dioctadecanoate	557-05-1	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours or

decomposition products.

Seek medical advice immediately.

Move to fresh air.

If symptoms persist, call a physician.

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 soap and plenty of water.

Call a physician if irritation develops or persists.

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 : Rinse thoroughly with plenty of water, also under the eyelids.

Get medical attention if irritation develops and persists.

Rinse thoroughly with plenty of water, also under the eyelids.



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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.

If swallowed, rinse mouth with water (only if the person is

conscious).

Seek medical advice immediately.

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.

Symptoms of poisoning (methanol):

Daze Dizziness Nausea

Abdominal pain Respiratory disorders

Inhalation may provoke the following symptoms:

Headache Irritation

Symptoms of poisoning, prolonged exposure (methanol):

Blindness

Symptoms of poisoning (methanol):

Daze Dizziness Nausea

Abdominal pain Respiratory disorders

Symptoms of poisoning, prolonged exposure (methanol):

Blindness

May cause an allergic skin reaction. May damage the unborn child.

Causes damage to organs through prolonged or repeated

exposure.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician Treat symptomatically.

No specific instructions needed.

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.

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

Unsuitable extinguishing

media

High volume water jet

High volume water jet

Specific hazards during

firefighting

Principal toxicant in the smoke is carbon monoxide.

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.

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.

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.

Ensure adequate ventilation.

Use personal protective equipment.

Environmental precautions : Avoid release to 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.

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 : Vacuum or sweep up spill.



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containment and cleaning up

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.

Non-sparking tools should be used.

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.

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.

#### **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.

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.

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.

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.

When using do not eat, drink or smoke.

Conditions for safe storage : Sto

: Store locked up.

Safety aspects do not require any special precautions in terms

of storage.



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Further information on storage stability

Keep in a dry place.

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
dioctyltin dilaurate	3648-18-8	TWA	0.1 mg/m3 (Tin)	OSHA Z-1
		TWA	0.1 mg/m3 (Tin)	ACGIH
		STEL	0.2 mg/m3 (Tin)	ACGIH
		TWA	0.1 mg/m3 (Tin)	OSHA P0
		TWA	0.1 mg/m3 (Tin)	NIOSH REL
		PEL	0.1 mg/m3 (Tin)	CAL PEL
		STEL	0.2 mg/m3 (Tin)	CAL PEL
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	1 mg/m3	ACGIH
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		PEL (Total dust)	10 mg/m3	CAL PEL
		PEL (respirable	5 mg/m3	CAL PEL



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		dust fraction)		
zinc dioctadecanoate	557-05-1	TWA	5 mg/m3	NIOSH REL
		(Respirable)		
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total	15 mg/m3	OSHA Z-1
		dust)		
		TWA	5 mg/m3	OSHA Z-1
		(respirable		
		fraction)		
		TWA (Total	10 mg/m3	OSHA P0
		dust)		
		TWA	5 mg/m3	OSHA P0
		(respirable		
		dust fraction)		
		PEL	10 mg/m3	CAL PEL
		TWA	10 mg/m3	ACGIH
		(Inhalable		
		particulate		
		matter)		
		TWA	3 mg/m3	ACGIH
		(Respirable		
		particulate		
		matter)		

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		TWA	200 ppm 260 mg/m3	OSHA P0
		STEL	250 ppm 325 mg/m3	OSHA P0
		С	1,000 ppm	CAL PEL
		PEL	200 ppm 260 mg/m3	CAL PEL
		STEL	250 ppm 325 mg/m3	CAL PEL
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		ST	250 ppm	NIOSH REL

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	325 mg/m3	
TWA	200 ppm 260 mg/m3	OSHA Z-1
TWA	200 ppm 260 mg/m3	OSHA P0
STEL	250 ppm 325 mg/m3	OSHA P0
С	1,000 ppm	CAL PEL
PEL	200 ppm 260 mg/m3	CAL PEL
STEL	250 ppm 325 mg/m3	CAL PEL

### **Engineering measures**

: Provide adequate ventilation.

Local exhaust ventilation may be necessary.

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.

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 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.

In case of insufficient ventilation:

Effective dust mask

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



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(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

Material : butyl-rubber
Break through time : >= 480 min
Glove thickness : 0.5 mm

Material : Fluorinated rubber

Break through time : >= 480 min Glove thickness : 0.4 mm

Material : butyl-rubber
Break through time : >= 480 min
Glove thickness : 0.5 mm

Material : Fluorinated rubber

Break through time : >= 480 min Glove thickness : 0.4 mm

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

Tightly fitting safety goggles

Skin and body protection : Protective clothing

Long sleeved clothing

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

oractice

Wash hands before breaks and immediately after handling

the product.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : pellets

Colour : natural colour



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Odour : odourless

pH : Not applicable insoluble

No data available

Melting range : 100 - 140 °C

Boiling range : Decomposes on heating.

Not applicable

Flash point : Not applicable (solid)

Not applicable

Evaporation rate : Not applicable (solid)

Not applicable

Flammability (solid, gas) : The product is not flammable.

The product is not flammable.

Upper explosion limit : Not applicable

Not applicable

Lower explosion limit : Not applicable

Not applicable

Vapour pressure : Not applicable (solid)

Not applicable

Relative vapour density : Not applicable

Density : 0.9 - 1.0 g/cm<sup>3</sup>

Bulk density : 500 - 600 kg/m<sup>3</sup>

Solubility(ies)

Water solubility : insoluble

insoluble

Partition coefficient: n-

octanol/water

: Not applicable insoluble

Not applicable



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Auto-ignition temperature : > 320 °C

Viscosity

Viscosity, kinematic : No data available

Not applicable

Explosive properties : Not explosive

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

The substance or mixture is not classified as oxidizing.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Stable under recommended storage conditions.

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

reactivity.

The intended crosslinking reaction occurs in combination with the base resin and moisture: at ambient conditions, in sauna

or hot water bath.

The product is a stable thermoplastic.

The intended crosslinking reaction occurs in combination with the base resin and moisture: at ambient conditions, in sauna

or hot water bath.

Possibility of hazardous

reactions

In contact with water or moisture methanol will be released.

None known.

Conditions to avoid : Exposure to moisture

Extremes of temperature and direct sunlight.

Exposure to moisture

Incompatible materials : None known.

None known.

Hazardous decomposition

products

Under fire conditions:

Carbon monoxide

Under fire conditions: Carbon monoxide



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During processing and thermal treatment of the product, small

amounts of volatile hydrocarbons may be released.

During crosslinking reaction in combination with base resin:

methanol

During processing and thermal treatment of the product, small

amounts of volatile hydrocarbons may be released.

During crosslinking reaction in combination with base resin:

methanol

In contact with water or moisture methanol will 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 No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**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

May damage the unborn child.



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#### STOT - single exposure

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

#### STOT - repeated exposure

Causes damage to organs (Immune system) through prolonged or repeated exposure.

#### **Aspiration toxicity**

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

#### **Further information**

### **Product:**

Remarks: During crosslinking reaction in combination with base resin: methanol (Flam. Liq. 2; H225, Acute Tox. 3; H301, Acute Tox. 3; H311, Acute Tox. 3; H331, STOT SE 1; H370 - see chapter 16) is released.

Remarks: During crosslinking reaction in combination with base resin: methanol (Flam. Liq. 2; H225, Acute Tox. 3; H301, Acute Tox. 3; H311, Acute Tox. 3; H331, STOT SE 1; H370) is released. Methanol: Toxic by inhalation, in contact with skin and if swallowed. Causes damage to organs.

Remarks: 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.

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**

#### Components:

1h-benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 1.3 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2.05 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0.976 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

EC10 (Desmodesmus subspicatus (green algae)): 0.658 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol:



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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.

Remarks: Not readily biodegradable.

Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: Does not accumulate in organisms.

Remarks: No data available

Mobility in soil

**Product:** 

Mobility : Remarks: Not expected to adsorb on soil.

Remarks: Not applicable

Other adverse effects

**Product:** 

Additional ecological

information

: Should not be released into the environment.

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.

Should not be released into the environment.

#### **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



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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 accord-ance with all applicable Federal, state and local regulations.

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 accord-ance with all applicable Federal, state and local regulations.

Contaminated packaging

Dispose of as unused product.

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

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

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

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.



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#### **National Regulations**

**49 CFR** 

Not regulated as a dangerous good

**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

The product is not regulated by ADR/RID, IMDG or IATA.

#### **SECTION 15. REGULATORY INFORMATION**

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.

The product is classified and labelled in accordance with Hazard Communication Standard 2012 (29 CFR 1910.1200)

### California Prop. 65

WARNING: This product can expose you to chemicals including dioctyltin dilaurate, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

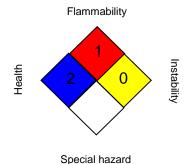
#### **SECTION 16. OTHER INFORMATION**



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#### **Further information**

#### NFPA:



#### HMIS® IV:



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

Safety data sheets of raw material suppliers.

Revision Date : 12/30/2021

#### **Disclaimer**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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**BOREALIS**