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TANCE/MIXTURE AND OF	THE COMPANY/UNDERTAKING
: Manufacture of plastic and	lymer, Ethylene-Hexene Copolymer ticles by injection molding, extrusion
devices; Health Canada	vices; European class III medical class IV Medical Devices; rmanent implantation into the body;
Company Te Customer Ser 0 product.safety	rvice 888 777-0232
er : product.safety@lyb.com	
: Warning	
	enerated during further processing, ans, may form combustible dust
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	 TANCE/MIXTURE AND OF Lupolen 4261A Q149 25213-02-9 Polyethylene copolymer 1-Hexene,polymer with e Ethylene-1-hexene copol Manufacture of plastic ar or other conversion procession procession FDA Class III medical de devices; Health Canada Applications involving pe Life-sustaining medical at Applications involving performed to the context of the context

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May decompose releasing irritating and toxic gases.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Components

Chemical name	CAS-No. EC-No.	<u>Weight %</u>	Component Type
1-Hexene, polymer with ethene	25213-02-9	100.0 %	

4. FIRST AID MEASURES

General advice	: Take proper precautions to ensure your own health and safet before attempting rescue and providing first aid.
If inhaled	 Remove person to fresh air. If signs/symptoms continue, get medical attention. In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air. Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR)
In case of skin contact	 If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polyme Do not attempt to peel polymer from skin as this will remove skin. Obtain immediate emergency medical attention if burn is dee or extensive.
In case of eye contact	 Flush eyes thoroughly with water for several minutes and see medical attention if discomfort persists. In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention.
If swallowed	: Adverse health effects due to ingestion are not anticipated.
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Notes to physician	
Symptoms	: Inhalation of process fumes and vapors may cause soreness the nose and throat and coughing.
Hazards	: Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns.
Treatment	: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
FIRE-FIGHTING MEASURES	
Suitable extinguishing media	: SMALL FIRE: Use dry chemical, CO2, or water spray.
	: LARGE FIRES: Use water spray hose nozzles from a safe location.
Unsuitable extinguishing media	: None known.
Specific hazards during fire fighting	 Keep away from heat and sources of ignition. Dust particles from this product are combustible particulate solids that present a flash fire or explosion hazard when suspended in air. Polymer dust layer melts on the hot surface before ignition ca occur In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbor (smoke).
Special protective equipment for fire-fighters	: Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
Further information	 Combustible particulate solid, will decompose under fire conditions. Calorific Value: 8000 - 11000 kcal/kg Fight fire from safe distance with hose lines or monitor nozzle Heat from fire may melt, decompose polymer, and generate flammable vapors. Move containers from fire area if it can be done without risk. Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container Always stay away from tanks engulfed in fire. Do not attempt to get on top of storage containers involved in
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	fire. Cool storage containers with large volumes of water even after fire is out.
6. ACCIDENTAL RELEASE MEA	SURES
Personal precautions	: Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface.
	Equip emergency responders with proper personal protective equipment (PPE) Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
	Potential combustible dust hazard. Polymer particles create slipping hazard on hard smooth surfaces.
	 May Contain trace amounts of light hydrocarbons, compounds of oxidation, aldehydes and acids In case of material degradation use appropriate respiratory equipment.
	For personal protection see section 8.
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Methods for containment / Methods for cleaning up	 On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as any solid.
	All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.
7. Handling and storage	
Precautions for safe handling	ng
Advice on safe handling	 Avoid dust accumulation in enclosed space. Use dust collection systems designed per NFPA 654 to avoid dust accumulation. Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard.
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	can occur Hot surface temperature s avoid direct ignition of a d Static discharge (spark), d environments may ignite explosion Electrostatic charge may Equipment handling polyr grounded (earthed) and b Metal containers involved should be grounded and I All electrical equipment sl codes and regulatory required combustible dusts. After handling, always wai water. When bringing the material may develop may conden section 10. Refer to NFPA 654, Stand	or other ignition sources, in high dust the dust and result in a dust build during conveying or handling. mer should be conductive and bonded. in the transfer of this material bonded. hould conform to applicable electric uirements for areas handling ash hands thoroughly with soap and al to processing temperatures vapors use in the exhaust ventilation. See
Fire-fighting class :	•	Manufacturing, Processing, and Particulate Solids, for safe handling. s not easily ignite.
Conditions for safe storage, in	cluding any incompatibili	ties
Requirements for storage areas and containers	and handling. Process en should be used to avoid e Degradation can occur be light and oxidizing agent: compounds of oxidation, a generated. Store away from excessiv oxidizing agents. Keep container closed to Take measures to prevent Maximum allowed storage 60 days. Avoid direct insufflation of Avoid direct sunlight and Store either in the closed area or in silos with vents. Avoid temperatures above with sources of heat.	t the build up of electrostatic charge. e temperatures of 50°C for maximum f air. contact with sources of heat. original containers in well ventilated e 140 °F, direct sunlight and contact original containers in well ventilated

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Specific end use(s)

: See Section 1.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Ingredients with workplace control parameters

Occupational Exposure Limits

Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable	US (ACGIH) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	3 mg/m3 respirable	US (ACGIH) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	15 mg/m3 total dust	US (OSHA) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	5 mg/m3 respirable	US (OSHA) 2005	

Consult local authorities for acceptable exposure limits.

Exposure controls

Engineering measures

Follow the recommendations in NFPA 654 (as amended and adopted) for equipment used to handle this product.

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acceptable crite other engineerin essels handling losions (inerting) -handling system	ed systems, should be used whenever feasible to maintain eria. When such controls are not feasible, or sufficient to achieve ng controls such as local exhaust ventilation should be used. combustible dust from this material should be designed to either or safely vent dust explosions per NFPA 654 ns (such as exhaust ducts, dust collectors, vessels, and ned in a manner to prevent the escape of dust into the work area
AQ149 Revision Date 10 trols, i.e. enclose acceptable crite other engineerin essels handling losions (inerting) -handling system ment) are design eakage from the	Gen. Variant: SDS_US_GHS Gen. Variant: SDS_US_GHS 2/02/2019 Print Date 01/05/2022 SDS No.: BE827 ed systems, should be used whenever feasible to maintain eria. When such controls are not feasible, or sufficient to achieve ing controls such as local exhaust ventilation should be used. combustible dust from this material should be designed to either or safely vent dust explosions per NFPA 654 ins (such as exhaust ducts, dust collectors, vessels, and ned in a manner to prevent the escape of dust into the work area
Revision Date 10 trols, i.e. enclose acceptable crite other engineerir essels handling losions (inerting) -handling system ment) are design eakage from the	Gen. Variant: SDS_US_GHS 2/02/2019 Print Date 01/05/2022 SDS No.: BE827 ed systems, should be used whenever feasible to maintain eria. When such controls are not feasible, or sufficient to achieve ng controls such as local exhaust ventilation should be used. combustible dust from this material should be designed to either or safely vent dust explosions per NFPA 654 ns (such as exhaust ducts, dust collectors, vessels, and ned in a manner to prevent the escape of dust into the work area
Revision Date 10 trols, i.e. enclose acceptable crite other engineerir essels handling losions (inerting) -handling system ment) are design eakage from the	ed systems, should be used whenever feasible to maintain eria. When such controls are not feasible, or sufficient to achieve ng controls such as local exhaust ventilation should be used. combustible dust from this material should be designed to either or safely vent dust explosions per NFPA 654 ns (such as exhaust ducts, dust collectors, vessels, and ned in a manner to prevent the escape of dust into the work area
acceptable crite other engineerin essels handling losions (inerting) -handling system ment) are design eakage from the	eria. When such controls are not feasible, or sufficient to achieve ng controls such as local exhaust ventilation should be used. combustible dust from this material should be designed to either or safely vent dust explosions per NFPA 654 ns (such as exhaust ducts, dust collectors, vessels, and ned in a manner to prevent the escape of dust into the work area
tive equipment	
	t
ection :	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere exceeds recommended limits. Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified respirators.
:	Wear gloves that provide thermal protection where there is a potential for contact with heated material.
tection :	Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.
otection :	Wear suitable protective clothing.
es :	Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.
r	rotection :

Appearance Color	Powders or flakes.Translucent to white
Odor	: Slight.
Odor Threshold	: No value available.
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Flash point	: No Data Available.
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution.
Upper explosion limit	: Not applicable.
Flammability (solid, gas)	: Polymer will burn but does not easily ignite.
Oxidizing properties	: Not considered an oxidizing agent.
Autoignition temperature	: > 300 °C
Decomposition temperature	: not determined
Melting point/range	: 50 - 170 °C
Boiling point/boiling range	: Not applicable.
Vapor pressure	: Not applicable.
Density	: <1 g/cm3
Water solubility	: Insoluble.
Partition coefficient: n- octanol/water	: No Data Available.
Viscosity, dynamic	: Not applicable.
Relative vapor density	: Not applicable.
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.
Other Information	: No additional information available.

Reactivity	: No known reactivity hazards.
Chemical stability	: Stable under normal conditions.
Hazardous reactions	: Will not occur.
Conditions to avoid	: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Materials to avoid	: Material may be softened by some hydrocarbons.
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Hazardous decomposition products Thermal decomposition	 Not expected to decompose under normal conditions. Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.
11. TOXICOLOGICAL INFORMAT	ĨION
Acute toxicity	
Acute oral toxicity	: Not classified
Acute inhalation toxicity	: Not classified
Acute dermal toxicity	: Not classified
Skin corrosion/irritation	: Not a skin irritant.
Serious eye damage/eye irritation	: Not an eye irritant. Mechanical irritation is possible.
Respiratory or skin sensitization	: Not classified
Chronic toxicity	
Carcinogenicity	: Not classified
	Not classified Not listed by IARC, NTP, OSHA or EPA.
Germ cell mutagenicity	: Not classified
Reproductive toxicity	
Effects on fertility / Effects on or via lactation	: Not classified
Effects on Development	: Not classified
Target Organ Systemic	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
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Toxicant - Single exposure						
Target Organ Systemic	: The substance or mixture is not classified as specific target					
Toxicant - Repeated exposure	organ toxicant, repeated exposure.					
Aspiration hazard	: Not applicable.					
12. Ecological information						
Ecotoxicology Assessment						
Short-term (acute) aquatic hazard	uatic : Not classified					
Long-term (chronic) aquatic hazard	: Not classified					
Persistence and degradability						
Biodegradability	: Not expected to be biodegradable.					
Bioaccumulative potential						
Bioaccumulation	: This material is not expected to bioaccumulate.					
Mobility in soil						
Mobility	: no data available					
Other adverse effects						
Environmental fate and pathways	: This material is not volatile and insoluble in water.					
Other information						
Additional ecological information	: Ecotoxicity is expected to be minimal based on the low water solubility of polymers.					
13. Disposal considerations						
Waste treatment methods						
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Product	:	applicable lav engineering p Recycle if po	and disposed ws and regula practices. Rea ssible.	of or reclaime ations and in claim where p	ed in conformance with conformance with good
14. TRANSPOR	T INFORMATION				
Not regulated for	r transport				
15. REGULATO	RY INFORMATION				
TSCA 12b					
	are subject to TSCA 1	2(b) export not	ification requi	irements.	
-	I Use Rules (SNUR) are subject to a Signification	cont Now Lico	Pulo		
SARA 302/304			Rule.		
This product cor	itains no known chem	icals regulated	under SARA	302/304.	
SARA 311/312					
	lable information, this ng to Section 311 & 3		assified as the	e following he	alth and/or physical
Combustible du	ıst				
SARA 313					
	tains no known chem	icals regulated	under SARA	313.	
State Reporting	l				
birth defects, or	es not contain listed s other reproductive ha g Water and Toxic En	rm that would r	equire warnir		

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However, LyondellBasell has not tested for the presence of listed chemical substances.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

Other international regulations

Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

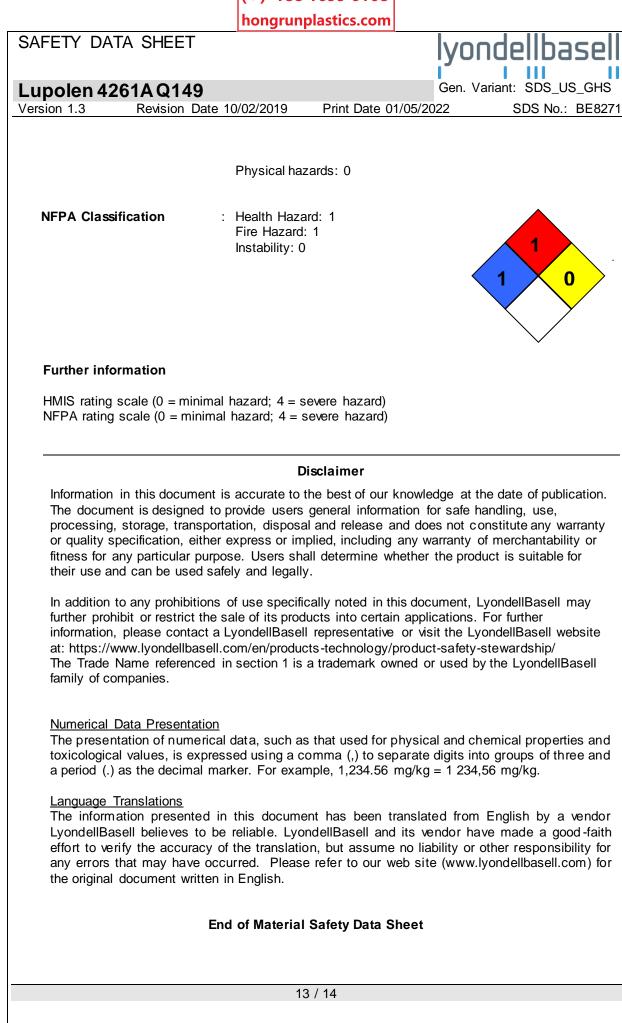
REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that the chemical substance in this product has been registered under REACh, in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Contact product.safety@lyb.com for additional global inventory information.

16. OTHER INFORMATION Material safety datasheet sections which have been updated: Revised Section(s): 15 16 HMIS Classification : Health Hazard: 1 Flammability: 1 1 0 12 / 14





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