	hongrunplastics.com
SAFETY DATA SHEET	lyondellbasell
Alathon L5645	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/01/2019 Print Date 01/05/2022 SDS No.: BE1434
1. IDENTIFICATION OF THE SUBS	TANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Trade name CAS Number:	: Alathon L5645 : 9002-88-4
Chemical characterization	: Polyethylene Homopolymer
Chemical name	: Polyethylene
Synonyms	: Ethene, homopolymer, PE
Identified uses	: Manufacture of plastic articles by injection molding, extrusion or other conversion process.
Prohibited uses	: FDA Class III medical devices; European class III medical
	devices; Health Canada class IV Medical Devices;
	Applications involving permanent implantation into the body; Life-sustaining medical applications
Company Address	Company Telephone
Equistar Chemicals, LP	Customer Service 888 777-0232
LyondellBasell Tower, Suite 30 1221 McKinney St.	00 product.safety@lyb.com
P.O. Box 2583	
Houston Texas 77252-2583	
Emergency telephone number EQUISTAR 800-245-4532	<u>er</u>
E-mail address	: product.safety@lyb.com
Responsible/issuing person	
2. HAZARDS IDENTIFICATION	
GHS Classification	
Combustible dust	
Label elements	
Signal word	: Warning
Hazard Statements	: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Other hazards	
	1 / 13

	(+) 188 1699 6168		
	hongrunplastics.com		
SAFETY DATA SHEET		lyondellbase	
Alathon L5645		Gen. Variant: SDS_US_GHS	
/ersion 1.2 Revision Da	ate 10/01/2019 Print Date 01/0	5/2022 SDS No.: BE14	
No additional information	available.		
COMPOSITION/INFORMATIC	ON ON INGREDIENTS		
ixtures			
Components			
Chemical name	CAS-No.	Weight %	
Polyethylene	9002-88-4	> 99.5 %	
	3002-00-4	> 33.0 %	
Contains: Stabilizers			
FIRST AID MEASURES			
General advice	: Take proper precautions to	ensure your own health and safe	
	before attempting rescue a	nd providing first aid.	
If inhaled	•	. If signs/symptoms continue, get	
	medical attention. In case of excessive inhalation of fumes that may be generate		
	during heating of this mater	ial, move the person to fresh air.	
	Obtain medical attention.	ssary give Cardio-Pulmonary	
	Resuscitation (CPR)	soury give cardio r annonary	
In case of skin contact		the skin, immediately flush with	
		ool the affected tissue and polym mer from skin as this will remove	
	skin.		
		cy medical attention if burn is dee	
	or extensive.		
In case of eye contact	· Flush eves thoroughly with	water for several minutes and se	
an outer of the contact	medical attention if discomf		
	: In case of eye contact with	molten polymer:	
	Continuously flush eye(s) w	rith cool running water for at least	
	minutes.	attempt to remove the metaric!	
	adherent to the eye(s).	attempt to remove the material	
	Immediately seek medical a	attention.	
If swallowed	: Adverse health effects due	to ingestion are not anticipated.	
	2 / 13		

	hongrunplastics.com		
SAFETY DATA SHEET	lyondellbase		
Alathon L5645	Gen. Variant: SDS_US_GHS		
Version 1.2 Revision Date	10/01/2019 Print Date 01/05/2022 SDS No.: BE14		
<b>Notes to physician</b> 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 or 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	<ul> <li>Keep away from heat and sources of ignition.</li> <li>In case of fire hazardous decomposition products may be produced such as:</li> <li>Carbon monoxide, carbon dioxide and unburned hydrocarbon (smoke).</li> </ul>		
Special protective equipment for fire-fighters	: Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.		
Further information	<ul> <li>Combustible particulate solid, will decompose under fire conditions.</li> <li>Calorific Value: 8000 - 11000 kcal/kg</li> <li>Fight fire from safe distance with hose lines or monitor nozzle Heat from fire may melt, decompose polymer, and generate flammable vapors.</li> <li>Move containers from fire area if it can be done without risk.</li> <li>Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container.</li> <li>Always stay away from tanks engulfed in fire.</li> <li>Do not attempt to get on top of storage containers involved in fire.</li> <li>Cool storage containers with large volumes of water even after fire is out.</li> </ul>		
	3 / 13		
	5715		

	hongrunplastics.com
SAFETY DATA SHEET	lyondellbase
Alathon L5645	Gen. Variant: SDS_US_GH
Version 1.2 Revision Date	10/01/2019 Print Date 01/05/2022 SDS No.: BE14
. ACCIDENTAL RELEASE MEASU	URES
Personal precautions	<ul> <li>Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface.</li> <li>Equip emergency responders with proper personal protective equipment (PPE) Avoid generating dust. 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.</li> </ul>
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Methods for containment / Methods for cleaning up	<ul> <li>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.</li> <li>All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with goo engineering practices. Reclaim where possible.</li> </ul>
. Handling and storage Precautions for safe handling	g
Advice on safe handling	<ul> <li>Material is in a pellet form. If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air. 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. Static discharge (spark), or other ignition sources, in high dus environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or handling. Equipment handling polymer should be conductive and grounded (earthed) and bonded.</li> </ul>
	greatilited) and bendeat

	nongrunp	lastics.com		
SAFETY DATA SHEET			lyo	ndellbasell
Alathon L5645			Gen. V	ariant: SDS_US_GHS
Version 1.2 Revision Date	10/01/2019	Print Date 01/0	05/2022	SDS No.: BE1434
	should be g All electrica codes and combustible After handli water. When bring may develo section 10. Refer to NF Dust Explo	regulatory requir e dusts. ng, always wash ing the material p may condense PA 654, Standa sions from the M	nded. ould conform ements for a n hands thoro to processin e in the exha rd for the Pro lanufacturing	to applicable electric
Fire-fighting class	Ū.	Il burn but does		
Conditions for safe storage, i				
Requirements for storage areas and containers	and handlir should be Store away oxidizing a Keep conta	ousekeeping pra g. Process enclused to avoid exe from excessive gents. iner closed to pr	osures and a cessive dust heat and aw revent contar	ay from strong
Specific end use(s)				
	: See Sectio	n 1.		
8. EXPOSURE CONTROLS/PERSO	NAL PROTE	TION		

## Control parameters

### Ingredients with workplace control parameters

### Occupational Exposure Limits

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

		hongrunp	plastics.com		
SAFETY DATA	SHEET			lyond	ellbasell
Alathon L564	5			Gen. Variant	: SDS_US_GHS
	Revision Date 10	)/01/2019	Print Date 01/	05/2022	SDS No.: BE1434
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust Materials that can be formed when handling this product: Non-		TWA	3 mg/m3 respirable 15 mg/m3 total dust	US (ACGIH) 2005 US (OSHA) 2005	
specified (inert or nuisance) dust					
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.

Engineering controls, i.e. enclosed systems, should be used whenever feasible to maintain exposures below acceptable criteria. When such controls are not feasible, or sufficient to achieve full conformance, other engineering controls such as local exhaust ventilation should be used. Equipment and vessels handling combustible dust from this material should be designed to either prevent dust explosions (inerting) or safely vent dust explosions per NFPA 654 Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

### Personal protective equipment

Respiratory protection	<ul> <li>Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.</li> <li>When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.</li> <li>Use appropriate respiratory protection where atmosphere exceeds recommended limits.</li> <li>Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified respirators.</li> </ul>
Hand protection	: Wear gloves that provide thermal protection where there is a potential for contact with heated material.
Eye and face protection	: Dust service goggles should be worn to prevent mechanical
	6 / 13

	hongrunplastics.com
SAFETY DATA SHEET	lyondellbase
lathon L5645	Gen. Variant: SDS_US_GHS
ersion 1.2 Revision Date	e 10/01/2019 Print Date 01/05/2022 SDS No.: BE14
	injury or other irritation to eyes due to airborne particles which may result from handling this product.
Skin and body protection	: Wear suitable protective clothing.
Hygiene measures	<ul> <li>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.</li> <li>Use good personal hygiene practices.</li> <li>Wash hands before eating, drinking, smoking, or using toilet facilities.</li> <li>Take off contaminated clothing and wash before reuse.</li> </ul>
PHYSICAL AND CHEMICAL P Appearance	: Pellets.
Color	: Translucent to white
Odor	: Slight.
Odor Threshold	: No value available.
Flash point	: No Data Available.
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer dua 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.
	7 / 13

	hongrunplastics.com		
SAFETY DATA SHEET	lyondellbase		
Alathon L5645	Gen. Variant: SDS_US_GHS		
/ersion 1.2 Revision Date	e 10/01/2019 Print Date 01/05/2022 SDS No.: BE14		
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.		
D. STABILITY AND REACTIVITY	(		
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.		
Hazardous decomposition products	: Not expected to decompose under normal conditions.		
Thermal decomposition	: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.		
I. TOXICOLOGICAL INFORMAT	ΓΙΟΝ		
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.		
	8 / 13		

	hongrunplastics.com
SAFETY DATA SHEET	lyondellbasel
Alathon L5645	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/01/2019 Print Date 01/05/2022 SDS No.: BE143
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 Toxicant - Single exposure	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Target Organ Systemic Toxicant - Repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	: Not applicable.
12. Ecological information	
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: Not classified
Long-term (chronic) aquatic hazard	: Not classified
Persistence and degradability	
Biodegradability	: Not expected to be biodegradable.
	9 / 13

	hongrunplastics.com		
SAFETY DATA SHEET	<u></u>	lyondellbasell	
Alathon L5645		Gen. Variant: SDS_US_GHS	
Version 1.2 Revision Date 1	0/01/2019 Print Date 0	1/05/2022 SDS No.: BE1434	
Bioaccumulative potential			
Bioaccumulation	: This material is not expec	ted to bioaccumulate.	
Mobility in soil			
Mobility	: no data available		
Other adverse effects			
pathways	: This material is not volatile	e and insoluble in water.	
Other information			
Additional ecological information	<ul> <li>Ecotoxicity is expected to be minimal based on the low water solubility of polymers.</li> <li>No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.</li> </ul>		
13. Disposal considerations Waste treatment methods			
Product	transported and disposed applicable laws and regula engineering practices. Re Recycle if possible.	ould be packaged, labeled, of or reclaimed in conformance with ations and in conformance with good claim where possible. as a Non-hazardous Material by	
14. TRANSPORT INFORMATION Not regulated for transport			
	10/12		
	10 / 13		

## SAFETY DATA SHEET

## Alathon L5645

Version 1.2

Revision Date 10/01/2019

Print Date 01/05/2022

Gen. Variant: SDS\_US\_GHS 22 SDS No.: BE1434

lyondellbase

### 15. REGULATORY INFORMATION

### TSCA 12b

No substances are subject to TSCA 12(b) export notification requirements.

### Significant New Use Rules (SNUR)

No substances are subject to a Significant New Use Rule.

### SARA 302/304

This product contains no known chemicals regulated under SARA 302/304.

### SARA 311/312

Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

Combustible dust

### SARA 313

Know Act.

This product contains no known chemicals regulated under SARA 313.

### State Reporting

This material does not contain listed substance(s) known to the State of California to cause cancer, birth defects, or other reproductive harm that would require warning under the California Proposition 65 State Drinking Water and Toxic Enforcement Act. 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

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	
	11 / 1	3	

		hongrunp	lastics.com	
SAFET	Y DATA SHEET			lyondellbase
				iyondenbase
Alatha	on L5645			Gen. Variant: SDS_US_GH
/ersion 1		10/01/2010	Print Date 01	
	.Z REVISION Date	10/01/2019	Plint Date 0	1/05/2022 SDS NO BET
1				
	Canada	DSL	Complia	
	China	IECSC	Complia	
	Europe	REACH ENCS		ACH Compliance Statement
	Japan Korea	KECI	Complia Complia	
	New Zealand	NZIOC	Complia	
	Philippines	PICCS	Complia	
	Jnited States of America	TSCA	Complia	
	Taiwan	TCSCA	Complia	
		TUSUA		
6. OTHE	roduct.safety@lyb.com fo			
6. OTHEI Mate	R INFORMATION erial safety datasheet se			
5. OTHEI Mate	R INFORMATION			
. OTHEI Mate Revis	R INFORMATION erial safety datasheet se sed Section(s): 15 16		ave been upd	
5. OTHEI Mate Revis HMIS	R INFORMATION erial safety datasheet se sed Section(s): 15 16 S Classification	ctions which h : Health Hazar Flammability:	ave been upd d: 0 ards: 0 d: 0	dated:
5. OTHEI Mate Revis HMIS	R INFORMATION erial safety datasheet se sed Section(s): 15 16 5 Classification	ections which h : Health Hazar Flammability: Physical hazar : Health Hazar Fire Hazard:	ave been upd d: 0 ards: 0 d: 0	dated:
5. OTHEI Mate Revis HMIS NFPA	R INFORMATION erial safety datasheet se sed Section(s): 15 16 5 Classification	<ul> <li>ections which h</li> <li>Health Hazard Flammability: Physical hazard</li> <li>Health Hazard Fire Hazard: Instability: 0</li> </ul>	ave been upd d: 0 1 ards: 0 d: 0 1	dated:

(+)	188	1699	6168
hon	grunp	olastic	s.com

# SAFETY DATA SHEET

## Alathon L5645

Version 1.2

Revision Date 10/01/2019

Print Date 01/05/2022

### Gen. Variant: SDS\_US\_GHS 22 SDS No.: BE1434

ondellbase

....

### Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative or visit the LyondellBasell website at: https://www.lyondellbasell.com/en/products-technology/product-safety-stewardship/ The Trade Name referenced in section 1 is a trademark owned or used by the LyondellBasell family of companies.

### Numerical Data Presentation

The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg.

#### Language Translations

The information presented in this document has been translated from English by a vendor LyondellBasell believes to be reliable. LyondellBasell and its vendor have made a good-faith effort to verify the accuracy of the translation, but assume no liability or other responsibility for any errors that may have occurred. Please refer to our web site (www.lyondellbasell.com) for the original document written in English.

### End of Material Safety Data Sheet