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NY/UNDERTAKING
e-Butene copolymer
on molding, extrusion
n class III medical
al Devices;
ntation into the body;
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further processing,
combustible dust

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SAFETY DATA SHEET		lyondellbasel
Koattro PB M 1200M		Gen. Variant: SDS_US_GHS
/ersion 1.2 Revision Date	10/01/2019 Print Date 12/	20/2019 SDS No.: BE127
No additional information a	vailable.	
COMPOSITION/INFORMATION	ON INGREDIENTS	
ixtures		
Components		
Chemical name	CAS-No.	Weight %
1-Butene, polymer with ethene	25087-34-7	> 99.5 %
Contains: Stabilizers		
Contains. Stabilizers		
FIRST AID MEASURES		
General advice	: Take proper precautions to	o ensure your own health and safety
	before attempting rescue a	
If inhaled	: Remove person to fresh a medical attention.	r. If signs/symptoms continue, get
	In case of excessive inhala	ation of fumes that may be generate
	during heating of this mate Obtain medical attention.	rial, move the person to fresh air.
	Keep person warm, if nece	essary 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
	bo not attempt to peel poly skin.	vmer from skin as this will remove the
	Obtain immediate emerger or extensive.	ncy medical attention if burn is deep
	or extensive.	
In case of eye contact	: Flush eves thoroughly with	water for several minutes and seel
	medical attention if discorr	
	: In case of eye contact with	molten polymer:
	Continuously flush eye(s) minutes.	with cool running water for at least
	Beyond flushing, DO NOT	attempt to remove the material
	adherent to the eye(s). Immediately seek medical	attention
	initial delay seek medical	
If swallowed	: Adverse health effects due	to ingestion are not anticipated.
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	2 / 13	

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SAFETY DATA SHEET	lyondellbase
Koattro PB M 1200M	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/01/2019 Print Date 12/20/2019 SDS No.: BE12
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. 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 fire. Cool storage containers with large volumes of water even after fire is out.
	3 / 13

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SAFETY DATA SHEET	lyondellbase
Koattro PB M 1200M	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/01/2019 Print Date 12/20/2019 SDS No.: BE127
6. ACCIDENTAL RELEASE MEAS	URES
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 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.
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 handlin	g
Advice on safe handling	 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 dust 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.
	4 / 13

	hongrunplastics.com	
SAFETY DATA SHEET		lyondellbasell
Koattro PB M 1200M		Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date 1	0/01/2019 Print Date 12/20/2	019 SDS No.: BE1272
	Metal containers involved in the should be grounded and bonde All electrical equipment should codes and regulatory requireme combustible dusts. After handling, always wash ha water. When bringing the material to p may develop may condense in section 10. Refer to NFPA 654, Standard fo Dust Explosions from the Manu Handling of Combustible Partic	d. conform to applicable electric ents for areas handling nds thoroughly with soap and processing temperatures vapors the exhaust ventilation. See or the Prevention of Fire and facturing, Processing, and
Fire-fighting class	Polymer will burn but does not	easily ignite.
Conditions for safe storage, ir	cluding any incompatibilities	
Requirements for storage areas and containers	Store in a dry location. Use good housekeeping practic and handling. Process enclosur should be used to avoid excess Store away from excessive hea oxidizing agents. Keep container closed to preven Take measures to prevent the b	res and adequate ventilation sive dust accumulation. It and away from strong Int contamination.
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	Additional
				Revision Date	Information
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable	US (ACGIH) 2005	

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Koattro PB	M 1200M			Gen. Variant	: SDS_US_GHS
Version 1.2	Revision Date 10)/01/2019	Print Date 12	2/20/2019	SDS No.: BE1272
Materials that car	n	TWA	3 mg/m3	US (ACGIH)	
be formed when handling this			respirable	2005	
product: Non-					
specified (inert or					
nuisance) dust					
Materials that can	1	TWA	15 mg/m3	US (OSHA)	
be formed when			total dust	2005	
handling this product: Non-					
specified (inert or					
nuisance) dust					
Materials that can	1	TWA	5 mg/m3	US (OSHA)	
be formed when			respirable	2005	
handling this product: Non-					
specified (inert or					
nuisance) dust					
,					

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	 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.
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

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AFETY DATA SHEET	lyondellbase
oattro PB M 1200M	Gen. Variant: SDS_US_GH
ersion 1.2 Revision Date	e 10/01/2019 Print Date 12/20/2019 SDS No.: BE12
	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	 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.
PHYSICAL AND CHEMICAL P	
Appearance Color	: Pellets. : 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.

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SAFETY DATA SHEET	lyondellbase	
Koattro PB M 1200M	Gen. Variant: SDS_US_GHS	
Version 1.2 Revision Date	e 10/01/2019 Print Date 12/20/2019 SDS No.: BE12	
Partition coefficient: n- octanol/water Viscosity, dynamic	: No Data Available. : Not applicable.	
Relative vapor density	: Not applicable.	
Evaporation rate	: Not applicable.	
Explosive properties	: No Data Available.	
Other Information	: No additional information available.	
0. 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.	
1. TOXICOLOGICAL INFORMAT	ΓΙΟΝ	
Acute toxicity		
Acute oral toxicity	: Not classified	
Acute inhalation toxicity Acute dermal toxicity	: Not classified : Not classified	
Acute definat loxicity		
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	lyondellbasell
Koattro PB M 1200M	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/01/2019 Print Date 12/20/2019 SDS No.: BE1272
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	lyondellbasell
Koattro PB M 1200M	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/01/2019 Print Date 12/20/2019 SDS No.: BE1272
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. No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.
13. Disposal considerations Waste treatment methods	
Product	 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. Recycle if possible. This material is classified as a Non-hazardous Material by RCRA.
14. TRANSPORT INFORMATION Not regulated for transport	
	10 / 13

SAFETY DATA SHEET

Koattro PB M 1200M

Version 1.2

Revision Date 10/01/2019

Print Date 12/20/2019

Gen. Variant: SDS US GHS

lyondellbase

SDS No.: BE1272

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

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 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	
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Gen. Variant: SDS_US_GHS

SDS No.: BE1272

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Koattro PE	3 M 1200M			Gen. V	ariant: SDS_L
Version 1.2	Revision Date 10	/01/2019	Print Date 12	2/20/2019	SDS No.
Canada	a	DSL	Complia	ant	
China		IECSC	Complia	ant	
Europe		REACH	See RE	ACH Compliar	nce Statement
Japan		ENCS	Complia	ant	
Korea		KECI	Complia	ant	
New Ze	ealand	NZIoC	Complia	ant	
Philippi	nes	PICCS	Complia	ant	

United States of America

REACh status

Taiwan

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

TSCA

TCSCA

Compliant

Compliant

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



Material safety datasheet sections which have been updated:

Revised Section(s): 15 16

HMIS Classification	: Health Hazard: 0 Flammability: 1 Physical hazards: 0	0 1 0			
NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Instability: 0				
Further information					
HMIS rating scale (0 = minimal hazard; 4 = severe hazard) NFPA rating scale (0 = minimal hazard; 4 = severe hazard)					
	12 / 13				

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SAFETY DATA SHEET

Koattro PB M 1200M

Version 1.2

Revision Date 10/01/2019

Print Date 12/20/2019



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Disclaimer

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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