CAS Number: : 2916 Chemical characterization : Polyl Chemical name : 1-Bu Synonyms : 1-Bu copo Identified uses : Manu or ot Prohibited uses : FDA devic Appli	MIXTURE AND OF tro KT AR 05 0-13-2 butene copolymer tene, polymer with 1- tene, polymer with polymer ufacture of plastic art her conversion proce Class III medical dev tes; Health Canada of ications involving per sustaining medical ap	THE COMPANY/UNDERTAKING -propene ropene, 1-Butene-propene ticles by injection molding, extrusion ess. vices; European class III medical class IV Medical Devices; rmanent implantation into the body; pplications <u>lephone</u> rvice 888 777-0232
Version 1.2 Revision Date 10/02/20 I. IDENTIFICATION OF THE SUBSTANCE/ Trade name : Koat CAS Number: : 2916 Chemical characterization : Polyl Chemical characterization : Polyl Chemical name : 1-Bu Synonyms : 1-Bu copo Identified uses : Mantor of the second copy Prohibited uses : FDA device Appli Life-se Company Address Equistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583 Emergency telephone number	MIXTURE AND OF tro KT AR 05 0-13-2 butene copolymer tene, polymer with 1- tene, polymer with polymer ufacture of plastic art her conversion proce Class III medical dev ces; Health Canada of ications involving per sustaining medical ap <u>Company Tel</u> Customer Ser	2/20/2019 SDS No.: BE8168 THE COMPANY/UNDERTAKING -propene ropene, 1-Butene-propene ticles by injection molding, extrusion ess. vices; European class III medical class IV Medical Devices; rmanent implantation into the body; pplications <u>lephone</u> rvice 888 777-0232
. IDENTIFICATION OF THE SUBSTANCE/ Trade name : Koat CAS Number: : 2916 Chemical characterization : Polyl Chemical name : 1-Bu Synonyms : 1-Bu copo Identified uses : Mana or ot Prohibited uses : FDA devic Appli Life-s Company Address Equistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583 Emergency telephone number	MIXTURE AND OF tro KT AR 05 0-13-2 butene copolymer tene, polymer with 1- tene, polymer with polymer ufacture of plastic art her conversion proce Class III medical dev ces; Health Canada of ications involving per sustaining medical ap <u>Company Tel</u> Customer Ser	THE COMPANY/UNDERTAKING -propene ropene, 1-Butene-propene ticles by injection molding, extrusion ess. vices; European class III medical class IV Medical Devices; rmanent implantation into the body; pplications <u>lephone</u> rvice 888 777-0232
Trade name::KoatCAS Number:::2916Chemical characterization:PolylChemical name::1-BuSynonyms::1-BuSynonyms::1-BuCopoidentified uses:Identified uses::Mana or otProhibited uses::FDA device Appli Life-sEquistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583Emergency telephone number	tro KT AR 05 0-13-2 butene copolymer tene, polymer with 1- tene, polymer with polymer lymer ufacture of plastic art her conversion proce Class III medical dev es; Health Canada of ications involving per sustaining medical ap <u>Company Tel</u> Customer Ser	-propene ropene, 1-Butene-propene ticles by injection molding, extrusion ess. vices; European class III medical class IV Medical Devices; rmanent implantation into the body; pplications
CAS Number: : 2916 Chemical characterization : Polyl Chemical name : 1-Bu Synonyms : 1-Bu copo Identified uses : Mana or ot Prohibited uses : FDA device Appli Life-s Company Address Equistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583 Emergency telephone number	0-13-2 butene copolymer tene, polymer with 1- tene, polymer with p lymer ufacture of plastic art her conversion proce Class III medical dev tes; Health Canada o ications involving per sustaining medical ap <u>Company Tel</u> Customer Ser	ticles by injection molding, extrusion ess. vices; European class III medical class IV Medical Devices; rmanent implantation into the body; pplications
or ot Prohibited uses : FDA devic Appli Life-s Equistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583 Emergency telephone number	her conversion proce Class III medical dev ees; Health Canada d ications involving per sustaining medical ap <u>Company Tel</u> Customer Ser	ess. vices; European class III medical class IV Medical Devices; rmanent implantation into the body; pplications <u>lephone</u> rvice 888 777-0232
devic Appli Life-s Equistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583 Emergency telephone number	es; Health Canada d ications involving per sustaining medical ap <u>Company Tel</u> Customer Ser	class IV Medical Devices; rmanent implantation into the body; pplications <u>lephone</u> rvice 888 777-0232
Equistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583 Emergency telephone number	Customer Ser	rvice 888 777-0232
E-mail address : produ Responsible/issuing person	ct.safety@lyb.com	
. HAZARDS IDENTIFICATION		
GHS Classification		
Combustible dust		
Label elements		
Signal word : Warr	ning	
hand		nerated during further processing, ns, may form combustible dust

SAFETY DATA SHEET

Koattro KT AR 05

Version 1.2 Revision Date 10/02/2019

Print Date 12/20/2019

Gen. Variant: SDS_US_GHS

lyondellbasel

SDS No.: BE8168

Other hazards

No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	<u>Weight %</u>
1-Butene, polymer with 1- propene	29160-13-2	98.0 - 100.0 %

Contains: Stabilizers

4. FIRST AID MEASURES

General advice	: Take proper precautions to ensure your own health and safety 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 polymer. Do not attempt to peel polymer from skin as this will remove the skin. Obtain immediate emergency medical attention if burn is deep or extensive.
In case of eye contact	 Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists. In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 18 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention.

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SAFETY DATA SHEET	lyondellbase
Koattro KT AR 05	Gen. Variant: SDS_US_GHS
/ersion 1.2 Revision Date	10/02/2019 Print Date 12/20/2019 SDS No.: BE81
If swallowed	: Adverse health effects due to ingestion are not anticipated.
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 hydrocarbon (smoke).
Special protective equipment for fire-fighters	: Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.

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SAFETY DATA SHEET	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	
	fire is out.
. 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.
Environmental precaditoris	
Methods for containment /	: On land, sweep/shovel into suitable disposal containers or
Methods for cleaning up	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.
. Handling and storage	
Precautions for safe handlin	a
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
	4 / 13

		hongrun	olastics.com		
SAFETY DATA S	HEET			lyondi	ellbasell
Koattro KT AR	05			Gen. Variant	: SDS_US_GHS
	vision Date 10	/02/2019	Print Date 12	2/20/2019	SDS No.: BE8168
Electrostatic charge may build during conveying or handling. Equipment handling polymer should be conductive and grounded (earthed) and bonded. Metal containers involved in the transfer of this material should be grounded and bonded. All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling combustible dusts. After handling, always wash hands thoroughly with soap and water. When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See section 10.				ictive and s material blicable electric handling with soap and peratures vapors	
		Dust Explo	sions from the	Manufacturing, Proc Particulate Solids, fo	cessing, and
Fire-fighting class	:	Polymer w	ill burn but does	s not easily ignite.	
Conditions for sa				ties	
Requirements for s areas and containe		Use good and handlin should be Store away oxidizing a Keep conta	ng. Process end used to avoid e y from excessiv igents. ainer closed to	practices during stor closures and adequa xcessive dust accur e heat and away fro prevent contamination the build up of elect	ate ventilation nulation. m strong on.
Specific end use(s)				
	:	See Section	on 1.		
8. EXPOSURE CONTR	OLS/PERSON/	AL PROTE	CTION		
Control parameters					
Ingredients with v	vorkplace con	trol param	eters		
Occupational Exposure Limits					
Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
					Inomation
		5	/ 13		

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SAFETY DATA SHEET			lyonde	ellbasell
Koattro KT AR 05			Gen. Variant:	SDS_US_GHS
Version 1.2 Revision Date 10)/02/2010	Print Date 12		SDS No.: BE8168
	// 02/2013		12012013	505 NO DE0100
Materials that can	TWA	10 mg/m3	US (ACGIH)	
be formed when		inhalable	2005	
handling this				
product: Non-				
specified (inert or				
nuisance) dust				
Materials that can	TWA	3 mg/m3	US (ACGIH)	
be formed when		respirable	2005	
handling this				
product: Non-				
specified (inert or				
nuisance) dust				
Materials that can	TWA	15 mg/m3	US (OSHA)	
be formed when		total dust	2005	
handling this				
product: Non-				
specified (inert or				
nuisance) dust				
Materials that can	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
	6 / 13

AFETY DATA SHEET	hongrunplastics.com
AFEIT DATA SHEET	lyondellbase
oattro KT AR 05	Gen. Variant: SDS_US_GH
rsion 1.2 Revision Date	e 10/02/2019 Print Date 12/20/2019 SDS No.: BE8
	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 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 shoul 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.
Appearance	
Appearance Color	: Pellets. : Translucent to white
Appearance Color Odor	Pellets.Translucent to whiteSlight.
Appearance Color Odor Odor Threshold	 Pellets. Translucent to white Slight. No value available. No Data Available.
Appearance Color Odor Odor Threshold Flash point	 Pellets. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du
Appearance Color Odor Odor Threshold Flash point Lower explosion limit	 Pellets. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution.
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit	 Pellets. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable.
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas)	 Pellets. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite.
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties	 Pellets. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent.
Appearance Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature	 Pellets. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C
Appearance ColorOdorOdor ThresholdFlash pointLower explosion limitUpper explosion limitFlammability (solid, gas)Oxidizing propertiesAutoignition temperatureDecomposition temperature	 Pellets. Translucent to white Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer duavaries according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C not determined

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Koattro KT AR 05	Gen. Variant: SDS_US_G
Version 1.2 Revision Dat	te 10/02/2019 Print Date 12/20/2019 SDS No.: BE
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.
D. STABILITY AND REACTIVITY	Y
0. STABILITY AND REACTIVIT	Y : No known reactivity hazards.
Reactivity Chemical stability Hazardous reactions	No known reactivity hazards.Stable under normal conditions.Will not occur.
Reactivity Chemical stability	No known reactivity hazards.Stable under normal conditions.
Reactivity Chemical stability Hazardous reactions	 No known reactivity hazards. Stable under normal conditions. Will not occur. Avoid contact with strong oxidizers, excessive heat, sparks
Reactivity Chemical stability Hazardous reactions Conditions to avoid	 No known reactivity hazards. Stable under normal conditions. Will not occur. Avoid contact with strong oxidizers, excessive heat, sparks open flame.
Reactivity Chemical stability Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition	 No known reactivity hazards. Stable under normal conditions. Will not occur. Avoid contact with strong oxidizers, excessive heat, sparks open flame. Material may be softened by some hydrocarbons.
Reactivity Chemical stability Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products Thermal decomposition	 No known reactivity hazards. Stable under normal conditions. Will not occur. Avoid contact with strong oxidizers, excessive heat, sparks open flame. Material may be softened by some hydrocarbons. 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.
Reactivity Chemical stability Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products Thermal decomposition	 No known reactivity hazards. Stable under normal conditions. Will not occur. Avoid contact with strong oxidizers, excessive heat, sparks open flame. Material may be softened by some hydrocarbons. 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.
Reactivity Chemical stability Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products Thermal decomposition	 No known reactivity hazards. Stable under normal conditions. Will not occur. Avoid contact with strong oxidizers, excessive heat, sparks open flame. Material may be softened by some hydrocarbons. 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.
Reactivity Chemical stability Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products Thermal decomposition	 No known reactivity hazards. Stable under normal conditions. Will not occur. Avoid contact with strong oxidizers, excessive heat, sparks open flame. Material may be softened by some hydrocarbons. 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.
Reactivity Chemical stability Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products Thermal decomposition	 No known reactivity hazards. Stable under normal conditions. Will not occur. Avoid contact with strong oxidizers, excessive heat, sparks open flame. Material may be softened by some hydrocarbons. 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.

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SAFETY DATA SHEET	lyondellbasell
Koattro KT AR 05	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/02/2019 Print Date 12/20/2019 SDS No.: BE8168
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 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 Long-term (chronic)	: Not classified : Not classified
aquatic hazard	
	9 / 13

	hongrunplastics.com
SAFETY DATA SHEET	lyondellbasell
Koattro KT AR 05	Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/02/2019 Print Date 12/20/2019 SDS No.: BE8168
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. 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
14. TRANSPORT INFORMATION	RCRA.
	40.440
	10 / 13

SAFETY DATA SHEET

Koattro KT AR 05

Version 1.2

Revision Date 10/02/2019

Print Date 12/20/2019

Gen. Variant: SDS US GHS

Iyondellbase

SDS No.: BE8168

Not regulated for transport

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.

11 / 13

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Koattro KT A				Gen. Variant: S	SDS US GHS
	Revision Date 10)/02/2010 P	rint Date 12/20/201		S No.: BE8168
	Revision Date it	J/02/2019 F	IIII Dale 12/20/201	9 30	5 NU DE0100
Country/Re	gion	Inventory	Status Descrip	tion	
Australia		AICS	Compliant		
Canada China		DSL IECSC	Compliant Compliant		
Europe		REACH	See REACH Compliance Statement		
Japan		ENCS	Compliant		
Korea		KECI	Compliant		
New Zealan	d	NZIoC	Compliant		
Philippines		PICCS	Compliant		
	es of America	TSCA	Compliant		
Taiwan		TCSCA	Compliant		
registered in the Euro registered under RE/ 1907/2006) Contact product.safe	ACh, in accordanc	ce with the dead	ines set forth in R	EACh. (Regulati	
-	v datasheet secti	ons which have	e been updated:		
Revised Section	1(5). 15 16				
HMIS Classifica		Health Hazard: (Flammability: 1 Physical hazards		0 1 0	
NFPA Classific		Health Hazard: (Fire Hazard: 1 Instability: 0)	0	
Further inform	ation				
12 / 13					

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SAFETY DATA SHEET		lyondellbasell				
Koattro KT AR 05		Gen. Variant: SDS_US_GHS				
Version 1.2 Revision Date 10,	/02/2019 Print Date 12	2/20/2019 SDS No.: BE8168				
HMIS rating scale (0 = minimal hazard; 4 = severe hazard) NFPA rating scale (0 = minimal hazard; 4 = severe hazard)						
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. <u>Language Translations</u> 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						
	red. Please refer to our w	reb site (www.lyondellbasell.com) for				
End of Material Safety Data Sheet						