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SAFETY DATA SHEET	Ponciplastics.com	lyondellbasell
Adflex KS 311 P RXF BL. Version 1.2 Revision Date 10		Gen. Variant: SDS_US_GHS 1/06/2022 SDS No.: BE9254
Version 1.2 Revision Date it		1/06/2022 SDS NO BE9254
1. IDENTIFICATION OF THE SUBST		
Trade name : CAS Number: :	Adflex KS 311 P RXF BL/ 9010-79-1	ACK
Chemical characterization :	Polypropylene copolymer	
Chemical name : Synonyms :	1-Propene, Polymer with Ethylene-Propylene copol	Ethene lymer, 1-Propene-Ethylene-
	Copolymer	
Identified uses :	Manufacture of plastic art or other conversion proce	icles by injection molding, extrusion ss.
Prohibited uses :	FDA Class III medical devides; Health Canada d	ices; European class III medical
	Applications involving per	manent implantation into the body;
	Life-sustaining medical ap	oplications
<u>Company Address</u> Equistar Chemicals, LP	Customer Ser	<u>ephone</u> vice 888 777-0232
LyondellBasell Tower, Suite 300	product.safety	
1221 McKinney St. P.O. Box 2583		
Houston Texas 77252-2583		
Emergency telephone number EQUISTAR 800-245-4532		
E-mail address : Responsible/issuing person	product.safety@lyb.com	
Responsible/issuing person		
2. HAZARDS IDENTIFICATION		
GHS Classification		
Combustible dust		
Label elements		
Signal word :	Warning	
Hazard Statements :		nerated during further processing, ns, may form combustible dust
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Adflex KS 311 P RXF		i yondenbube		
Version 1.2 Revision Dat	BLACK e 10/01/2019 Print Date 01/0	Gen. Variant: SDS_US_GHS 06/2022 SDS No.: BE9254		
Other hazards No additional information	available.			
. COMPOSITION/INFORMATION	N ON INGREDIENTS			
Components Chemical name	CAS-No.	Weight %		
1-Propene, Polymer with Ethe	ene 9010-79-1	95.0 - 100.0 %		
Contains: Additives and stal	bilizers			
. FIRST AID MEASURES General advice	: Take proper precautions to before attempting rescue a	o ensure your own health and safety and providing first aid.		
If inhaled	medical attention. In case of excessive inhala during heating of this mate Obtain 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 th skin. Obtain immediate emergency medical attention if burn is deep or extensive. 			
In case of eye contact	: Flush eyes thoroughly with medical attention if discom	water for several minutes and seek fort persists.		
	minutes.	with cool running water for at least 1 attempt to remove the material		
If swallowed	: Adverse health effects due	to ingestion are not anticipated.		
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Adflex KS 311 P RXF BI	
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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.
Suitable extinguishing media	 SMALL FIRE: Use dry chemical, CO2, or water spray. LARGE FIRES:
Lineuitable extinguishing	Use water spray hose nozzles from a safe location.
Unsuitable extinguishing media Specific hazards during fire	None known.Keep away from heat and sources of ignition.
fighting	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.
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.
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Adflex KS 311 P RXF E Version 1.2 Revision Date	
ACCIDENTAL RELEASE MEAS	SURES
Porsonal procentions	: Equip responders with proper protection.
Personal precautions	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 wit applicable laws and regulations and in conformance with goo engineering practices. Reclaim where possible.
Handling and storage	
Precautions for safe handling	ng
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 dus environments may ignite the dust and result in a dust explosion
	Electrostatic charge may build during conveying or handling.
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Adflex KS 311 I				Gen Variant:	SDS_US_GHS
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				ner should be conduc	ctive and
		-	(earthed) and b ainers involved	onded. in the transfer of this	s material
			grounded and b		liachta atactria
			regulatory requ	nould conform to app irements for areas h	
		After hand		sh hands thoroughly	with soap and
		water. When brin	ging the materia	al to processing temp	peratures vapors
		may develo	op may conden	se in the exhaust ver	
		section 10 Refer to N		lard for the Preventio	n of Fire and
		•		Manufacturing, Proc Particulate Solids, for	•
Fire-fighting class		: Polymer w	ill burn but does	s not easily ignite.	
Conditions for saf	e storage, in	cluding any	incompatibili	ties	
Requirements for s	•	: Store in a	•		
areas and containers		and handli	ng. Process en	practices during stora closures and adequa excessive dust accum	te ventilation
		•		e heat and away fror	n strong
		oxidizing a Keep conta		prevent contaminatio	n.
		Take meas	sures to prevent	the build up of elect	trostatic charge.
Specific end use(s	6				
opeonie enu use(s		: See Sectio	n 1		
		. 566 56010	<i>л</i> гт.		
. EXPOSURE CONTR	OLS/PERSON	AL PROTE	CTION		
ontrol noromotoro					
control parameters					
Ingredients with w	vorkplace co	ntrol param	eters		
Occupational Exp	osure Limits	i			
Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Materials that can		TWA	10 mg/m3	US (ACGIH)	
be formed when handling this			inhalable	2005	
product: Non-					
specified (inert or nuisance) dust					
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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 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
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	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	ROPERTIES : Pellets. : Black
Odor	: Slight.
Odor Threshold	: No value available.
Flash point	: No Data Available.
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer du 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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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.
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	: Not expected to decompose under normal conditions.
products 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	: 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.
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Adflex KS 311 P RXF B			Gen. Variant: SDS_US_GHS
Version 1.2 Revision Date	10/01/2019	Print Date 01/0	06/2022 SDS No.: BE925
Respiratory or skin sensitization	: Not classifi	ed	
Chronic toxicity			
Component Name	NTP	IARC	OSHA
Carbon Black Titanium Dioxide		2B 2B	Present Present
			Flesen
Carcinogenicity	: Not classifi	ed	
	carcinogeni This materi	ic to humans. al is encapsulate ase under norma	ed by IARC as possibly ed in a thermoplastic resin with al conditions of use, transportation,
Germ cell mutagenicity	: Not classified		
Reproductive toxicity			
Effects on fertility / Effects on or via lactation	: Not classifi		
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		nce or mixture is ant, repeated ex	s not classified as specific target posure.
Aspiration hazard	: Not applicable.		
2. Ecological information			
Ecotoxicology Assessment			
Short-term (acute) aquatic hazard	: Not classifie	ed	
Long-term (chronic) aquatic hazard	: Not classifi	ed	
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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
Floduci	: 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	
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yondellbase

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 the following chemicals regulated by New Jersey's Worker and Community Right to Know Act:

1333-86-4 Carbon Black

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

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

1333-86-4 Carbon Black

1344-28-1 Aluminum oxide

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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	Not 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 all substances in this preparation have 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

HMIS Classification

Material safety datasheet sections which have been updated:

Revised Section(s): 15 16

: Health Hazard: 0 Flammability: 1 Physical hazards: 0



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