SAFETY DATA SHEET		lyondellbasell
Adflex X 500 F		Gen. Variant: SDS_CA_GHS
Version 1.1 Revision Date	12/14/2015 Print Date 05/30/	/2016 SDS No.: BE6788
SECTION 1. PRODUCT AND CO	MPANY IDENTIFICATION	
Product name CAS Number: Chemical characterization Chemical Name	<ul> <li>Adflex X 500 F</li> <li>25895-47-0</li> <li>Advanced Polyolefin</li> <li>1-Butene, polymer with ethen</li> <li>Copolymer, ethylene propyler</li> </ul>	
Synonyms	. Copolymen, eurylene propyler	
Identified uses	: Manufacture of plastic articles or other conversion process.	s by injection molding, extrusion
Prohibited uses	: FDA Class III medical devices devices; Health Canada class Applications involving permar Life-sustaining medical applic	s IV Medical Devices; nent implantation into the body;
Company	: Equistar Chemicals, LP LyondellBasell Tower, Suite 3 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583	
Telephone	: Customer Service 888 777-02 Product Safety 800 700-09	
Emergency telephone	: CANUTEC 613 996-6666 LYONDELL 800-245-4532	
E-mail address	product.safety@lyb.com	
SECTION 2. HAZARDS IDENTIF	CATION	
GHS Classification Not a dangerous substand Label elements	e or mixture according to the Globa	ally Harmonized System (GHS).
Not a dangerous substanc	e or mixture according to the Globa	ally Harmonized System (GHS).
Other hazards		
If small particles are gener form combustible dust con	ated during further processing, har centrations in air.	ndling or by other means, may
3. Composition/information on i Mixtures	ngredients	
Ingredients		
-		
Chemical Name	CAS-No.	Weight %
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1-Butene, polymer with ethene and 1-propene	25895-47-0	> 99.5 %
Contains: Additives and stab	lizers	
TION 4. FIRST AID MEASUR	ES	
First aid procedures		
General advice		s to ensure your own health and sa ue and providing first aid.
If inhaled	medical attention. In case of excessive in generated during heatir fresh air. Obtain medical attentio	h air. If signs/symptoms continue, g nalation of fumes that may be ng of this material, move the person n. ecessary give Cardio-Pulmonary
In case of skin contact	large amounts of water polymer. Do not attempt to peel p the skin.	icts the skin, immediately flush with to cool the affected tissue and polymer from skin as this will remov rgency medical attention if burn is d
In case of eye contact	: Flush eyes thoroughly medical attention if disc	with water for several minutes and s comfort persists.
	15 minutes.	(s) with cool running water for at lea OT attempt to remove the material
If swallowed	: Adverse health effects	due to ingestion are not anticipated
Notes to physician		
Symptoms	: Inhalation of process fu in the nose and throat a	mes and vapors may cause sorene and coughing.
Hazards	: Dust contact with the ey Molten polymer may ca	yes can lead to mechanical irritatior use thermal burns.
Treatment		sure should be directed at the contr cal condition of the patient.

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TION 5. FIRE-FIGHTING MEA	'SU	IRES
Flammable properties		
Autoignition temperature	:	> 572 °F (300 °C)
Lower explosion limit	:	The minimum explosive concentration (MEC) for polymer de varies according to particle size distribution.
Upper explosion limit	:	Not applicable.
Fire fighting		
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.
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 nozzles. 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 fire. Cool storage containers with large volumes of water even after fire is out.
Protective equipment and pr	eca	autions for firefighters
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 hydrocarbons (smoke).
Special protective equipment for fire-fighters	:	Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
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void generating dust.
quip emergency responders with proper personal protect pupment (PPE) void generating dust. void dispersal of dust in the air (i.e., clearing dust surface th compressed air). otential combustible dust hazard. olymer particles create slipping hazard on hard smooth rfaces.
uipment (PPE) void generating dust. void dispersal of dust in the air (i.e., clearing dust surface th compressed air). otential combustible dust hazard. olymer particles create slipping hazard on hard smooth rfaces.
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otential combustible dust hazard. Olymer particles create slipping hazard on hard smooth rfaces.
olymer particles create slipping hazard on hard smooth rfaces.
pot fluch into surface water or capitary sower system
The nush into surface water of samilary sewer system.
n land, sweep/shovel into suitable disposal containers o
cuum using equipment which avoids ignition risk. n water, material is insoluble; collect and contain as any
lid.
l recovered material should be packaged, labeled,
ansported and disposed of or reclaimed in conformance plicable laws and regulations and in conformance with g
gineering practices. Reclaim where possible.
aterial is in a pellet form.
converted to small particles during further processing,
Indling, or by other means, may form combustible dust incentrations in air.
void dust accumulation in enclosed space.
se dust collection systems designed per NFPA 654 to av
ist accumulation. /oid generating dust; fine dust suspended in air and in th
esence of an ignition source is a potential dust explosion izard.
atic discharge (spark), or other ignition sources, in high
vironments may ignite the dust and result in a dust plosion
piosion ectrostatic charge may build during conveying or handli
uipment handling polymer should be conductive and
ounded (earthed) and bonded. etal containers involved in the transfer of this material
ould be grounded and bonded.
l electrical equipment should conform to applicable elec
des and regulatory requirements for areas handling
mbustible dusts. ter handling, always wash hands thoroughly with soap a
ater.
hen bringing the material to processing temperatures va

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	section 10 Refer to N Dust Explo	op may condense in the exha FPA 654, Standard for the Pr osions from the Manufacturing of Combustible Particulate So	evention of Fire and g, Processing, and
Storage			
Requirements for storage areas and containers	and handli should be Store awa oxidizing a Keep cont	housekeeping practices durin ng. Process enclosures and a used to avoid excessive dust y from excessive heat and aw	adequate ventilation accumulation. /ay from strong mination.

### 8. Exposure controls/personal protection

### **Control parameters**

### Ingredients with workplace control parameters

### **Occupational Exposure Limits**

Ingredients	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	

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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 injury or other irritation to eyes due to airborne particles which may result from handling this product.	ı
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>	

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Appearance	
Physical state	: Pellets.
Color	: Translucent to white
Odor	: Slight.
Safety data	
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer of 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	: > 572 °F (300 °C)
Decomposition temperature	: not determined
рН	: Not applicable.
Melting point/range	: 122 - 338 °F (50 - 170 °C)
Boiling point/boiling range	: Not applicable.
Vapor pressure	: Not applicable.
Density	: <1 g/cm3
Water solubility	: Insoluble.
Partition coefficient: n-	: No Data Available.
octanol/water Viscosity, dynamic	: Not applicable.
Relative vapor density	: Not applicable.
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.
Remarks - Other information	: No additional information available.

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Reactivity	: No known reactivity hazards.
Chemical stability	: Stable under normal conditions.
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.
Hazardous reactions	: Will not occur.
Acute toxicity Acute oral toxicity	: Not classified
TION 11. TOXICOLOGICAL	INFORMATION
-	
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	
	: Not classified Not listed by IARC, NTP, OSHA or EPA.
Carcinogenicity	

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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	I
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Persistence and degradability	
Biodegradability	: Not expected to be biodegradable.
Bioaccumulative potential	
Bioaccumulation	: This material is not expected to bioaccumulate.
Mobility in soil	
Additional advice Environmental fate and pathways	: This material is not volatile and insoluble in water.
Results of PBT and vPvB assess	ment
Not applicable.	
Other adverse effects	
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</li> </ul>

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Adfl				
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		other wildlife i intestinal tract		nich may obstruct their
SECTI	ON 13. DISPOSAL CONSIDE	RATIONS		
Fu	urther information	transported an applicable law	nd disposed of or vs and regulations practices. Reclaim	e packaged, labeled, reclaimed in conformance with and in conformance with good where possible.
	ON 14. TRANSPORT INFORM	IATION		
Notieg	gulated for transport			
SECTI	ON 15. REGULATORY INFOR	RMATION		
Other	international regulations			
Global	I Inventory Status			
	gredients of this product are co	mpliant with the	following chemica	al inventory requirements or
exemp	tions.		-	
	*Additional Explanatory Statu	is Statements fo	blow the table, as	necessary.
	Country/Region	Inventory	Status Descr	iption
	Australia	AICS	Compliant	
l	Canada	DSL	Compliant	
	China	IECSC	Compliant	
	Europe	REACH		Compliance Statement
1	Japan	ENCS	Compliant	•
			Compliant	
	Korea	KECI	Compliant	
		KECI NZIoC		
	Korea New Zealand		Compliant	
	Korea	NZIoC	Compliant Compliant Compliant	
	Korea New Zealand Philippines	NZIoC PICCS	Compliant Compliant	

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dflex X 500 F			Gen. Va	ariant: SDS_CA_G
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TION 16. OTHER INFOR	MATION			
Further information				
HMIS Classification	: Health Haza	rd: 0		
	Flammability Physical haz	<i>r</i> : 1	0	1 0
NFPA Classification	: Health Haza Fire Hazard: Instability: 0			1
				0 0
Other Information HMIS rating scale (0 = mi				
NFPA rating scale (0 = m <b>Material safety datashe</b> Revised Section(s): 15	eet sections which	have been upd	ated:	
Material safety datashe	eet sections which November 10 201	have been upd	ated:	
Material safety datashe Revised Section(s): 15 This document is genera	eet sections which November 10 201	have been upd 5 isclaimer		and environmental
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### Disclaimer

(ii) applications involving permanent implantation into the body; (iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

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