according to Regulation (EC) No. 1907/2006

### Adflex X 100 G

Version 1.1

Revision Date 11/16/2015

Print Date 05/30/2016

SDS No.: BE6786

lyondellbasell

Gen. Variant: SDS\_AT

1. Identification of the substance/mixture and of the company/undertaking				
1.1 Product identifier				
Trade name Synonyms Substance name Substance No.	: Ethylene Copolym : 1-Prope	Adflex X 100 G Ethylene-Propylene copolymer, 1-Propene-Ethylene- Copolymer 1-Propene, Polymer with Ethene 9010-79-1		
1.2 Relevant identified use	s of the substance	e or mixture and uses adv	ised against	
Identified uses		cture of plastic articles by in conversion process.	jection molding, extrusion	
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			edical Devices; pplantation into the body;	
1.3 Details of the supplier of	of the safety data	sheet	1.4 Emergency telephone	
<b>Company</b> Basell Sales & Marketing Company B.V. Delftseplein 27E 3013 AA Rotterdam Netherlands	<b>Telephone</b> 31 (0) 10 275 55 00	<b>Registration number</b> NA	Emergency telephone +32 3 575 1235	
			<b>Poison Center:</b> Gesundheid Österreich GMBH AT: +43 1 406 43 43 24 hours all days	
E-mail address Responsible/issuing per	-	afety@lyb.com		
2. Hazards identification				
2.1 Classification of the su	bstance or mixtur	e		
Classification (REGUL	ATION (EC) No 12	272/2008)		
Not a hazardous substa	nce or mixture acc	ording to Regulation (EC) N	o 1272/2008.	
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#### 2.2 Label elements

### Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### 2.3 Other hazards

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

#### 3. Composition/information on ingredients

#### 3.2 Mixtures

#### Ingredients

Chemical Name	CAS-No. EC-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	<u>Weight %</u>
1-Propene, Polymer with Ethene	9010-79-1	Not Classified	Not Classified	> 99.5 %

Contains: Additives and stabilizers

#### 4. First aid measures

#### 4.1 Description of first-aid measures

General advice	: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.
If inhaled	<ul> <li>Remove person to fresh air. If signs/symptoms continue, get medical attention.</li> <li>In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air.</li> <li>Obtain medical attention.</li> <li>Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR)</li> </ul>
In case of skin contact	<ul> <li>If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer.</li> <li>Do not attempt to peel polymer from skin as this will remove the skin.</li> <li>Obtain immediate emergency medical attention if burn is deep</li> </ul>
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#### /ondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT Adflex X 100 G Version 1.1 Revision Date 11/16/2015 Print Date 05/30/2016 SDS No.: BE6786 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 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eve(s). Immediately seek medical attention. If swallowed : Adverse health effects due to ingestion are not anticipated.

# 4.2 Most important symptoms and effects, both acute and delayed

#### Symptoms : Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. Hazards : Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns.

## 4.3 Indication of any immediate medical attention and special treatment needed

#### Treatment : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. Fire-fighting measures

#### 5.1 Extinguishing media 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 : None known. media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire : 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 hydrocarbons (smoke). 5.3 Advice for firefighters Special protective equipment : Wear approved positive pressure self-contained breathing for fire-fighters apparatus and firefighter protective clothing.

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<ul> <li>conditions.</li> <li>Calorific Value: 8000 - 11000 kcal/kg</li> <li>Fight fire from safe distance with hose lines or monitor nozzles.</li> <li>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> 6. Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures <ul> <li>Equip responders with proper protection.</li> <li>Creates dangerous slipping hazard on any hard smooth surface.</li> <li>Equip emergency responders with proper personal protective equipment (PPE)</li> <li>Avoid gispersal of dust in the air (i.e., clearing dust surfaces with compressed air).</li> <li>Potential combustible dust hazard.</li> <li>Polymer particles create slipping hazard on hard smooth surfaces.</li> </ul>				
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4 / 13	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		
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'. Handling and storage	
7.1 Precautions for safe handlin	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. 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. 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.</li> </ul>
Fire-fighting class	: Polymer will burn but does not easily ignite.
7.2 Conditions for safe storage,	including any incompatibilities
Requirements for storage areas and containers	<ul> <li>Store in a dry location.</li> <li>Use good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation.</li> <li>Store away from excessive heat and away from strong oxidizing agents.</li> <li>Keep container closed to prevent contamination.</li> <li>Take measures to prevent the build up of electrostatic charge.</li> </ul>
7.3 Specific end use(s)	
	: See Section 1.2.
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#### 8. Exposure controls/personal protection

#### 8.1 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	

Consult local authorities for acceptable exposure limits.

#### 8.2 Exposure controls

#### **Engineering measures**

Follow the recommendations in international standard 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. 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</li> </ul>
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#### lvondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT Adflex X 100 G Version 1.1 Revision Date 11/16/2015 Print Date 05/30/2016 SDS No.: BE6786 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. : Dust service goggles should be worn to prevent mechanical Eye and face protection 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. **Environmental exposure controls** General advice : See section 6. 9. Physical and chemical properties 9.1 Information on basic physical and chemical properties Appearance : Pellets. Color : Translucent to white Odor : Slight. Lower explosion limit : Note: The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution. Upper explosion limit : Note: Not applicable. Flammability (solid, gas) : Polymer will burn but does not easily ignite. Oxidizing properties : Not considered an oxidizing agent. : > 300 °C Autoignition temperature : Note: Not applicable. pН 7/13

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Melting point/range	: 50 - 170 °C
Boiling point/boiling range	: Note: Not applicable.
Vapor pressure	: Note: Not applicable.
Density	: <1 g/cm3
Water solubility	: Note: Insoluble.
Partition coefficient: n- octanol/water	: Note: No Data Available.
Viscosity, dynamic	: Note: Not applicable.
Relative vapor density	: Note: Not applicable.
Evaporation rate	: Note: Not applicable.
Explosive properties	: No Data Available.
9.2 Other information	
10. Stability and reactivity	
10.1 Reactivity	
No known reactivity hazards.	
10.2 Chemical stability	

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

## Hazardous reactions : Will not occur. 10.4 Conditions to avoid : Avoid contact with strong oxidizers, excessive heat, sparks or Conditions to avoid open flame. 10.5 Incompatible materials Materials to avoid : Material may be softened by some hydrocarbons. 10.6 Hazardous decomposition products Hazardous decomposition : Not expected to decompose under normal conditions. products 8/13

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Revision Dai	11/10/2015 Fint Date 05/30/2010 3D3 No BE07		
Thermal decomposition	: Note: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.		
1. Toxicological information			
1.1 Information on toxicologica	al effects		
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.		
Respiratory or skin sensitization	: Not classified		
Chronic toxicity			
Carcinogenicity	: Not classified		
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 Tox	icant - Single exposure		
	: The substance or mixture is not classified as specific target organ toxicant, single exposure.		
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Target Organ Systemic To	: The substan	l exposure nce or mixture is not class ant, repeated exposure.	sified as specific target
Aspiration hazard	: Not applicat	ole.	
2. Ecological information			
2.1 Toxicity			
Ecotoxicology Assessmer	ıt		
Acute aquatic toxicity	: Not classifie	d	
Chronic aquatic toxicity	: Not classifie	d	
2.2 Persistence and degradab	ility		
Biodegradability	: Not expected	d to be biodegradable.	
2.3 Bioaccumulative potential			
Bioaccumulation	: This materia	al is not expected to bioad	ccumulate.
2.4 Mobility in soil			
Additional advice Environmental fate and pathways		al is not volatile and insolu	uble in water.
2.5 Results of PBT and vPvB			
This substance/mixture cont and toxic (PBT) or very pers			r persistent, bioaccumulative
2.6 Other adverse effects			
Additional ecological information	solubility of p No data ava	ilable on this product. He may eat pellets which m	owever, birds, fish and
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#### 13. Disposal considerations

#### 13.1 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.

#### 14. Transport information

Not regulated for transport

#### 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **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 pre-registered or, where required under REACh, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

#### 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	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

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

#### **15.2 Chemical Safety Assessment**

No information available.

#### 16. Other information

Material safety datasheet sections which have been updated: Revised Section(s): 1 2 7 8 15 November 10 2015

#### Further information

#### Disclaimer

Multiple legal entities and registration numbers may be displayed in Section 1. The Recipient shall refer to the shipping documents to identify the legal entity that supplied this product.

This document is generated for the purpose of distributing health, safety, and environmental data.

Information is correct to the best of our knowledge at the date of the SDS publication. It is not a specification sheet nor should any displayed data be construed as a specification. Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

(i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;

(ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;

(iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;

(iv) tobacco related products and applications, electronic cigarettes and similar devices.

The product(s) may not be used in:

(i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;

(ii) applications involving permanent implantation into the body;

(iii) life-sustaining medical applications.

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#### Disclaimer

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.

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. Adflex, Adstif, Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Aquathene, Avant, Catalloy, Clyrell, Dexflex, Flexathene, Hifax, Histif, Hostacom, Hostalen, Indure, Integrate, Koattro, Lucalen, Luflexen, Lupolen, Metocene, Microthene, Moplen, Nexprene, Petrothene, Plexar, Pristene, Pro-Fax, Purell, Sequel, Softell, Starflex, Ultrathene, and Valtec are trademarks owned or used by the LyondellBasell family of companies.