SAFETY DATA SHEET		lyondellbasell
Adsyl 5 C 37 F		Gen. Variant: SDS_CA_GHS
Version 1.0 Revision Date	04/21/2015 Print Date 05/3	30/2016 SDS No.: BE6748
SECTION 1. PRODUCT AND COI	MPANY IDENTIFICATION	
Product name CAS Number:	: Adsyl 5 C 37 F 25895-47-0	
Chemical characterization	: Advanced Polyolefin	
Chemical Name	: 1-Butene, polymer with eth	ene and 1-propene
Synonyms	: Copolymer, ethylene propy	
Identified uses	: Manufacture of plastic artic or other conversion proces	les by injection molding, extrusion s.
Prohibited uses	devices; Health Canada cla	nanent implantation into the body;
Company	: Equistar Chemicals, LP LyondellBasell Tower, Suite 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-25	
Telephone	: Customer Service 888 777 Product Safety 800 700	
Emergency telephone	: CANUTEC 613 996-6666 LYONDELL 800-245-4532	
E-mail address	product.safety@lyb.com	
SECTION 2. HAZARDS IDENTIFI	CATION	
GHS Classification		
Not a dangerous substanc	e or mixture according to the Gl	obally Harmonized System (GHS).
Label elements		
Not a dangerous substanc	e or mixture according to the Gl	obally Harmonized System (GHS).
Other hazards		
If small particles are gener form combustible dust con		handling or by other means, may
3. Composition/information on in Mixtures	ngredients	
Ingredients		
Chemical Name	CAS-No.	Weight %
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1-Butene, polymer with ethen and 1-propene	e 25895-47-0	> 99.5 %
Contains: Additives and stal	bilizers	
TION 4. FIRST AID MEASU	RES	
First aid procedures		
General advice		ons to ensure your own health and saf cue and providing first aid.
If inhaled	medical attention. In case of excessive in generated during heat fresh air. Obtain medical attenti	sh air. If signs/symptoms continue, ge nhalation of fumes that may be ting of this material, move the person ion. necessary give Cardio-Pulmonary
In case of skin contact	large amounts of wate polymer. Do not attempt to pee the skin.	tacts the skin, immediately flush with er to cool the affected tissue and I polymer from skin as this will remove ergency medical attention if burn is de
In case of eye contact	: Flush eyes thoroughly medical attention if dis	v with water for several minutes and se scomfort persists.
	15 minutes.	e(s) with cool running water for at leas NOT attempt to remove the material ).
If swallowed	: Adverse health effects	s due to ingestion are not anticipated.
Notes to physician		
Symptoms	: Inhalation of process t in the nose and throat	fumes and vapors may cause sorenes and coughing.
Hazards	: Dust contact with the Molten polymer may c	eyes can lead to mechanical irritation. cause thermal burns.
Treatment		osure should be directed at the contronical condition of the patient.
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TION 5. FIRE-FIGHTING MEA	SURES
Flammable properties	
Autoignition temperature	: > 572 °F (300 °C)
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer or 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	<ul> <li>Combustible particulate solid, will decompose under fire 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 generat flammable vapors.</li> <li>Move containers from fire area if it can be done without risl Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of contain Always stay away from tanks engulfed in fire.</li> <li>Do not attempt to get on top of storage containers involved fire.</li> <li>Cool storage containers with large volumes of water even after fire is out.</li> </ul>
Protective equipment and pr	ecautions for firefighters
Specific hazards during fire fighting	<ul> <li>Keep away from heat and sources of ignition.</li> <li>In case of fire hazardous decomposition products may be produced such as:</li> <li>Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).</li> </ul>
Special protective equipment for fire-fighters	: Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
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Dereand pressutions	- Equip responders with proper protection
Personal precautions	<ul> <li>Equip responders with proper protection.</li> <li>Creates dangerous slipping hazard on any hard smooth</li> </ul>
	surface.
	Equip emergency responders with proper personal protecti
	equipment (PPE) Avoid generating dust.
	Avoid dispersal of dust in the air (i.e., clearing dust surface
	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 /	: 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 v
	applicable laws and regulations and in conformance with g
	engineering practices. Reclaim where possible.
TION 7. HANDLING AND ST Handling	
	: Material is in a pellet form.
Handling	
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.
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.
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Handling	<ul> <li>Material is in a pellet form.</li> <li>If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air.</li> <li>Avoid dust accumulation in enclosed space.</li> <li>Use dust collection systems designed per NFPA 654 to avoid dust accumulation.</li> <li>Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion</li> </ul>
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. Use dust collection systems designed per NFPA 654 to ave dust accumulation. Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard.</li> </ul>
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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. 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 of environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or handline 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 ar</li> </ul>
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. Use dust collection systems designed per NFPA 654 to ave 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 of 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 electr codes and regulatory requirements for areas handling</li> </ul>

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	section 10 Refer to N Dust Expl	lop may condense in the exha ). IFPA 654, Standard for the Pl osions from the Manufacturin of Combustible Particulate Sc	revention of Fire and g, Processing, and
Storage			
Requirements for storage areas and containers	Use good and handl should be Store awa oxidizing a Keep cont	dry location. housekeeping practices durin ing. Process enclosures and used to avoid excessive dus by from excessive heat and av agents. tainer closed to prevent conta isures to prevent the build up	adequate ventilation t accumulation. way from strong amination.

## 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.
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
Ddor	: Slight.
Safety data	
ower explosion limit	: The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution.
Jpper explosion limit	: Not applicable.
Flammability (solid, gas)	: Polymer will burn but does not easily ignite.
Dxidizing properties	: Not considered an oxidizing agent.
Autoignition temperature	: > 572 °F (300 °C)
Decomposition temperature	: not determined
рΗ	: Not applicable.
Melting point/range	: 122 - 338 °F (50 - 170 °C)
Boiling point/boiling range	: Not applicable.
/apor pressure	: Not applicable.
Density	: <1 g/cm3
Vater solubility	: Insoluble.
Partition coefficient: n-	: No Data Available.
octanol/water /iscosity, 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 c 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.
CTION 11. TOXICOLOGICAL Acute toxicity	INFORMATION
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 Not listed by IARC, NTP, OSHA or EPA.
Germ cell mutagenicity	: Not classified

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

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		other wildlife r intestinal tract		ich may obstruct their
SECTIO	ON 13. DISPOSAL CONSIDE	RATIONS		
Fu	urther information	transported ar applicable law	nd disposed of or r vs and regulations ractices. Reclaim v	e packaged, labeled, reclaimed in conformance with and in conformance with good where possible.
SECTI	ON 14. TRANSPORT INFOR	MATION		
Not reg	gulated for transport			
SECTIO	ON 15. REGULATORY INFO	RMATION		
Other i	international regulations			
Global	Inventory Status gredients of this product are co		-	
<b>Global</b> The ing	Inventory Status gredients of this product are continued tions. *Additional Explanatory Stat	us Statements fo	llow the table, as r	necessary.
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat	us Statements fo	llow the table, as r	necessary.
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia	us Statements fo Inventory AICS	llow the table, as r Status Descr Compliant	necessary.
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia Canada	us Statements fo Inventory AICS DSL	llow the table, as r Status Descri Compliant Compliant	necessary.
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia Canada China	us Statements fo Inventory AICS DSL IECSC	llow the table, as r Status Description Compliant Compliant Compliant	iption
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia Canada China Europe	us Statements fo Inventory AICS DSL IECSC REACH	llow the table, as r Status Descri Compliant Compliant Compliant See REACH (	necessary.
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia Canada China Europe Japan	us Statements fo Inventory AICS DSL IECSC REACH ENCS	llow the table, as r Status Descri Compliant Compliant Compliant See REACH ( Compliant	iption
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia Canada China Europe Japan Korea	us Statements fo AICS DSL IECSC REACH ENCS KECI	llow the table, as r Status Descri Compliant Compliant Compliant See REACH C Compliant Compliant	iption
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia Canada China Europe Japan Korea New Zealand	us Statements fo Inventory AICS DSL IECSC REACH ENCS KECI NZIoC	llow the table, as r Status Descri Compliant Compliant Compliant See REACH ( Compliant Compliant Compliant Compliant	iption
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia Canada China Europe Japan Korea New Zealand Philippines	us Statements fo Inventory AICS DSL IECSC REACH ENCS KECI NZIOC PICCS	Ilow the table, as r Status Descri Compliant Compliant Compliant See REACH ( Compliant Compliant Compliant Compliant Compliant	iption
<b>Global</b> The ing	Inventory Status gredients of this product are contions. *Additional Explanatory Stat Country/Region Australia Canada China Europe Japan Korea New Zealand	us Statements fo Inventory AICS DSL IECSC REACH ENCS KECI NZIoC	llow the table, as r Status Descri Compliant Compliant Compliant See REACH ( Compliant Compliant Compliant Compliant	iption Compliance Statement

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ECTION 16. OTHER INFOR	MATION	
Further information		
HMIS Classification	: Health Hazard: 0 Flammability: 1 Physical hazards: 0	0 1 0
NFPA Classification	: Health Hazard: 0 Fire Hazard: 1 Instability: 0	
	inimal hazard; 4 = severe hazar iinimal hazard; 4 = severe hazar	
NFPA rating scale (0 = m	ninimal hazard; 4 = severe hazan eet sections which have been	rd)
NFPA rating scale (0 = m <b>Material safety datash</b> Updated format ; First	ninimal hazard; 4 = severe hazar eet sections which have been Edition April 15 2015 Disclaimer	rd) • <b>updated:</b>
NFPA rating scale (0 = m <b>Material safety datash</b> Updated format ; First This document is gener data.	eet sections which have been Edition April 15 2015 Disclaimer ated for the purpose of distributi	rd) • <b>updated:</b> Ing health, safety, and environmental
NFPA rating scale (0 = m Material safety datash Updated format ; First This document is gener data. Information is correct to It is not a specification s Before using a product should make their own i use and can be used sa IMPLIED (INCLUDING PARTICULAR PURPOS TO BY THE PARTIES I This product(s) may not (i) any U.S. FDA Class devices, without prior no	eet sections which have been Edition April 15 2015 Disclaimer ated for the purpose of distribution the best of our knowledge at the sheet nor should any displayed of sold by a company of the Lyond independent determination that afely and legally. SELLER MAKE ANY WARRANTY OF MERCHA SE OR ANY WARRANTY) OTH N A CONTRACT. to be used in: I, Health Canada Class I, and/or otification to Seller for each spece	rd) <b>updated:</b> Ing health, safety, and environmental e date of the SDS publication. data be construed as a specification. ellBasell family of companies, users the product is suitable for the intended ES NO WARRANTY; EXPRESS OR ANTABILITY OR FITNESS FOR A ER THAN AS SEPARATELY AGREED r European Union Class I medical cific product and application; or (ii) the
NFPA rating scale (0 = m <b>Material safety datash</b> Updated format ; First This document is generic data. Information is correct to It is not a specification is Before using a product should make their own is use and can be used sat IMPLIED (INCLUDING PARTICULAR PURPOS TO BY THE PARTIES I This product(s) may not (i) any U.S. FDA Class devices, without prior not manufacture of any of the product and application III Medical Devices; Eur packaging that is consided devices; packaging in da form that is intended for topical (skin) administration nuclear reactor. Addition	eet sections which have been Edition April 15 2015 Disclaimer ated for the purpose of distribution the best of our knowledge at the sheet nor should any displayed of sold by a company of the Lyond independent determination that afely and legally. SELLER MAKE ANY WARRANTY OF MERCHA SE OR ANY WARRANTY) OTH N A CONTRACT. to be used in: I, Health Canada Class I, and/or otification to Seller for each spect he following, without prior writter : U.S. FDA Class II Medical Dev ropean Union Class II Medical Dev ropean Un	rd) <b>updated:</b> Ing health, safety, and environmental e date of the SDS publication. data be construed as a specification. ellBasell family of companies, users the product is suitable for the intended ES NO WARRANTY; EXPRESS OR ANTABILITY OR FITNESS FOR A ER THAN AS SEPARATELY AGREED r European Union Class I medical

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#### Disclaimer

regulatory classification.

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.

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