SAFETY DATA SHEET		lyondellbasell
Adsyl 5 C 39 F		Gen. Variant: SDS_CA_GHS
Version 1.0 Revision Date	e 04/23/2015 Print Date 05/	/30/2016 SDS No.: BE5007
SECTION 1. PRODUCT AND CO	MPANY IDENTIFICATION	
Product name	: Adsyl 5 C 39 F	
CAS Number: Chemical characterization	25895-47-0	
Chemical Name	Advanced Polyolefin1-Butene, polymer with eth	nene and 1-propene
Synonyms	: Copolymer, ethylene prop	
Identified uses	: Manufacture of plastic artic or other conversion proces	cles by injection molding, extrusion ss.
Prohibited uses	devices; Health Canada cl	manent implantation into the body;
Company	 Equistar Chemicals, LP LyondellBasell Tower, Suit 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-25 	
Telephone	: Customer Service 888 777 Product Safety 800 700	
Emergency telephone	: CANUTEC 613 996-666 LYONDELL 800-245-4532	
E-mail address	product.safety@lyb.com	
SECTION 2. HAZARDS IDENTIF	CATION	
GHS Classification		
Not a dangerous substanc	e or mixture according to the G	lobally Harmonized System (GHS).
-		
Label elements		
Not a dangerous substanc	e or mixture according to the G	lobally Harmonized System (GHS).
Other hazards		
If small particles are gener form combustible dust con		handling or by other means, may
3. Composition/information on i	ngredients	
Mixtures		
Ingredients		
Chemical Name	CAS-No.	Weight %
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1-Butene, polymer with ethe and 1-propene	ne 2	25895-47-0	> 99.5 %
Contains: Additives and sta	abilizers	3	
TION 4. FIRST AID MEAS	JRES		
First aid procedures			
General advice		Take proper precautions to e before attempting rescue and	nsure your own health and sa I providing first aid.
If inhaled		 Remove person to fresh air. If signs/symptoms continue, gemedical attention. In case of excessive inhalation of fumes that may be generated during heating of this material, move the person fresh air. Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR) 	
In case of skin contact		large amounts of water to coo polymer. Do not attempt to peel polym the skin.	e skin, immediately flush with ol the affected tissue and er from skin as this will remov y medical attention if burn is de
In case of eye contact		Flush eyes thoroughly with w medical attention if discomfor	ater for several minutes and s rt persists.
		15 minutes.	h cool running water for at lea tempt to remove the material
If swallowed	:	Adverse health effects due to	o ingestion are not anticipated.
Notes to physician			
Symptoms		Inhalation of process fumes and vapors may cause sorenes in the nose and throat and coughing.	
Hazards		Dust contact with the eyes ca Molten polymer may cause th	an lead to mechanical irritation nermal burns.
Treatment		Treatment of overexposure s symptoms and the clinical co	hould be directed at the contrond
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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	 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 generatiflammable vapors. Move containers from fire area if it can be done without ris 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. 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 protective equipment and protection of the second seco	ecautions 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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Doreonal procoutions	- Equip responders with proper protection
Personal precautions	: Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth
	surface.
	Equip emergency responders with proper personal protecti
	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 /	: 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	ORAGE
	UNAGE
Handling	
Handling 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
-	If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air.
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	section 10 Refer to N Dust Explo	FPA 654, Standa osions from the N	ard for the Pr Ianufacturing	evention of Fire and g, Processing, and lids, for safe handling.
Storage				
Requirements for storage areas and containers	and handl should be Store awa oxidizing a Keep cont	housekeeping pr ing. Process enc used to avoid ex y from excessive agents. ainer closed to p	losures and a cessive dust heat and aw revent contai	vay from strong

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	 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 exposulimit 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 certifier respirators. 	ure
Hand protection	: Wear gloves that provide thermal protection where there is potential for contact with heated material.	a
Eye and face protection	: Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles where may result from handling this product.	
Skin and body protection	: Wear suitable protective clothing.	
Hygiene measures	 Selection of appropriate personal protective equipment she be based on an evaluation of the performance characterist 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 toil facilities. Take off contaminated clothing and wash before reuse. 	tics I

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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 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	: > 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 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	
	: Not classified
Effects on fertility / Effects on or via lactation	
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.
Ecotoxicology Assessment Acute aquatic toxicity Chronic aquatic toxicity	: Not classified : 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.	
Not applicable. Other adverse effects	

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		other wildlife intestinal trac	nay eat pellets which may obstruct the s.	ir
SECTION 13. DIS	POSAL CONSIDE	RATIONS		
Further information :		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.		
ECTION 14. TR	ANSPORT INFORM	MATION		
Not regulated for t	ransport			
xemptions. *Additiona	this product are co al Explanatory Statu		following chemical inventory requirem llow the table, as necessary.	ents or
Country		Inventory	Status Description	
Australia		AICS	Compliant	
Canada		DSL	Compliant	
China		IECSC	Compliant	
Europe		REACH	See REACH Compliance Stateme	nt
Japan		ENCS	Compliant	
Korea		KECI	Compliant	
New Zea		NZIoC PICCS	Compliant Compliant	
Dhilippin	tates of America	TSCA	Compliant	
Philippin	ales of America	TCSCA	Not Determined	
			Not Determined	

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ECTION 16. OTHER INFO	ORMATION	
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	
	sheet sections which have be st Edition April 15 2015	en updated:
	Disclaime	r
data.		outing health, safety, and environmental
data. Information is correct It is not a specification Before using a product should make their own use and can be used IMPLIED (INCLUDING PARTICULAR PURPO TO BY THE PARTIES This product(s) may n (i) any U.S. FDA Clas	to the best of our knowledge at a sheet nor should any displaye at sold by a company of the Lyo n independent determination the safely and legally. SELLER MA G ANY WARRANTY OF MERC OSE OR ANY WARRANTY) OT S IN A CONTRACT. Not be used in: s I, Health Canada Class I, and	buting health, safety, and environmental the date of the SDS publication. d data be construed as a specification. IndellBasell family of companies, users at the product is suitable for the intended IKES NO WARRANTY; EXPRESS OR HANTABILITY OR FITNESS FOR A THER THAN AS SEPARATELY AGREED
data. Information is correct It is not a specification Before using a product should make their own use and can be used IMPLIED (INCLUDING PARTICULAR PURPO TO BY THE PARTIES This product(s) may n (i) any U.S. FDA Clast devices, without prior manufacture of any of product and application III Medical Devices; E packaging that is const devices; packaging in	to the best of our knowledge at a sheet nor should any displaye of sold by a company of the Lyo n independent determination the safely and legally. SELLER MA G ANY WARRANTY OF MERC OSE OR ANY WARRANTY) OT S IN A CONTRACT. Not be used in: s I, Health Canada Class I, and notification to Seller for each sp f the following, without prior writton: U.S. FDA Class II Medical D uropean Union Class II Medica sidered a part or component of direct contact with a pharmace	outing health, safety, and environmental the date of the SDS publication. d data be construed as a specification. ndellBasell family of companies, users at the product is suitable for the intended KES NO WARRANTY; EXPRESS OR HANTABILITY OR FITNESS FOR A THER THAN AS SEPARATELY AGREED

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Disclaimer

regulatory classification.

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