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SAFETY DATA SHEET	Ponciplastics.com
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Clyrell EC340Q Version 1.2 Revision Date 1	Gen. Variant: SDS_US_GHS 0/01/2019 Print Date 01/05/2022 SDS No.: BE6808
1. IDENTIFICATION OF THE SUBS	ANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Trade name : CAS Number:	Clyrell EC340Q 25895-47-0
Chemical characterization :	Advanced Polyolefin
Chemical name : Synonyms :	1-Butene, polymer with ethene and 1-propene Copolymer, ethylene propylene butene, random
Identified uses :	Manufacture of plastic articles by injection molding, extrusion or other conversion process.
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
Company Address Equistar Chemicals, LP LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583	Company Telephone Customer Service 888 777-0232 product.safety@lyb.com
Emergency telephone numbe EQUISTAR 800-245-4532	<u>r</u>
E-mail address Responsible/issuing person	product.safety@lyb.com
2. HAZARDS IDENTIFICATION	
GHS Classification	
Combustible dust	
Label elements	
Signal word	: Warning
Hazard Statements	: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Other hazards	
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Clyrell EC340Q ersion 1.2 Revision Da	te 10/01/2019 Print Date 01/0	Gen. Variant: SDS_US_GH 05/2022 SDS No.: BE6
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No additional information	available.	
COMPOSITION/INFORMATIO	N ON INGREDIENTS	
xtures		
Components Chemical name	CAS-No.	Weight %
1-Butene, polymer with ether and 1-propene	ne 25895-47-0	> 99.5 %
Contains: Additives and sta	bilizers	
FIRST AID MEASURES		
General advice	: Take proper precautions to before attempting rescue a	ensure your own health and safe nd providing first aid.
lf inhaled	medical attention. In case of excessive inhala during heating of this mate Obtain medical attention.	r. If signs/symptoms continue, get tion of fumes that may be genera rial, move the person to fresh air. ssary give Cardio-Pulmonary
In case of skin contact	large amounts of water to o Do not attempt to peel poly skin.	the skin, immediately flush with cool the affected tissue and polym mer from skin as this will remove cy medical attention if burn is dee
In case of eye contact	: Flush eyes thoroughly with medical attention if discom	water for several minutes and se fort persists.
	minutes.	with cool running water for at leas attempt to remove the material
If swallowed	: Adverse health effects due	to ingestion are not anticipated.

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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.
FIRE-FIGHTING MEASURES	
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.
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 hydrocarbon (smoke).</li> </ul>
Special protective equipment for fire-fighters	: Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
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 nozzle 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</li> </ul>
	<ul> <li>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</li> </ul>
	fire is out.
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ACCIDENTAL RELEASE MEASU	RES	
		proper protection
Personal precautions	surface. Equip emergency resp equipment (PPE) Avoid generating dust Avoid dispersal of dus with compressed air). Potential combustible	pping hazard on any hard smooth bonders with proper personal protective t in the air (i.e., clearing dust surfaces
Environmental precautions	: Do not flush into surfa	ce water or sanitary sewer system.
Methods for containment / : Methods for cleaning up	vacuum using equipme On water, material is ir solid. All recovered material transported and dispos applicable laws and re	into suitable disposal containers or ent which avoids ignition risk. isoluble; collect and contain as any should be packaged, labeled, sed of or reclaimed in conformance with gulations and in conformance with goo Reclaim where possible.
Handling and storage		
Precautions for safe handling		
Advice on safe handling :	handling, or by other m concentrations in air. Avoid dust accumulation Use dust collection syst dust accumulation. Avoid generating dust; presence of an ignition hazard. Static discharge (spark environments may igni explosion Electrostatic charge m	articles during further processing, neans, may form combustible dust
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		Metal cont should be All electric codes and combustib After hand water. When brin may develops section 10 Refer to N Dust Explo	grounded and bo al equipment sho regulatory requir le dusts. ling, always wash ging the material op may condense FPA 654, Standa osions from the M	n the transfer of this	licable electric handling with soap and peratures vapors ntilation. See n of Fire and essing, and
Fire-fighting class	:	Polymer w	ill burn but does	not easily ignite.	
Conditions for sa	fe storage, inc	cluding any	v incompatibilitio	es	
Requirements for s areas and containe	-	Use good and handli should be Store awa oxidizing a Keep cont	ng. Process encl used to avoid ex y from excessive agents. ainer closed to p	actices during stora osures and adequa cessive dust accum heat and away fror revent contamination the build up of elect	te ventilation nulation. m strong on.
Specific end use(	•	See Section	on 1.		
8. EXPOSURE CONTR Control parameters	OLS/PERSON	AL PROTE	CTION		
Ingredients with	workplace con	trol param	eters		
Occupational Exp	osure Limits				
Components	CAS-No.	Туре	Limit Value	Basis Bayision Date	Additional Information
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable	Revision Date US (ACGIH) 2005	iniomation
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		0 0		1
Materials that can be formed when	TWA	3 mg/m3 respirable	US (ACGIH) 2005	
handling this		respirable	2005	
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				

# 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
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	injury or other irritation to may result from handling t	eyes due to airborne particles which this product.
Skin and body protection	: Wear suitable protective of	clothing.
Hygiene measures	be based on an evaluation of the protective equipmer performed, conditions pres hazards and/or potential h during use. Use good personal hygien Wash hands before eating facilities.	personal protective equipment should n of the performance characteristics nt relative to the task(s) to be sent, duration of use, and the mazards that may be encountered ne practices. g, drinking, smoking, or using toilet othing and wash before reuse.
. PHYSICAL AND CHEMICAL P Appearance Color	<b>PROPERTIES</b> : Pellets. : Translucent to white	
Odor	: Slight.	
Odor Threshold	: No value available.	
Flash point	: No Data Available.	
Lower explosion limit	: The minimum explosive of varies according to partic	concentration (MEC) for polymer dual
Upper explosion limit	: Not applicable.	
Flammability (solid, gas)	: Polymer will burn but doe	es not easily ignite.
Oxidizing properties	: Not considered an oxidizi	ing 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	
Density Water solubility	: < 1 g/cm3 : 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	- r
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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Respiratory or skin sensitization	: Not classified
Chronic toxicity	
Carcinogenicity	: Not classified
	Not listed by IARC, NTP, OSHA or EPA.
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 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	
Short-term (acute) aquatic hazard	: Not classified
Long-term (chronic) aquatic hazard	: Not classified
Persistence and degradability	
Biodegradability	: Not expected to be biodegradable.
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Bioaccumulative potential	
	: 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	<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 other wildlife may eat pellets which may obstruct their intestinal tracts.</li> </ul>
	<ul> <li>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.</li> <li>This material is classified as a Non-hazardous Material by RCRA.</li> </ul>
14. TRANSPORT INFORMATION Not regulated for transport	
15. REGULATORY INFORMATION	
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# Clyrell EC340Q

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# 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 no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

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

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

#### 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		
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Korea	KECI	Compliant			
New Zealand Philippines	NZIOC PICCS	Compliant Compliant			
United States of America		Compliant			
Taiwan	TCSCA	Compliant			
REACh status					
If the product has been purchased registered in the European Union, registered under REACh, in accor 1907/2006)	we confirm that all	substances in t	his preparation have been		
Contact product.safety@lyb.com 1	for additional global	inventory inform	nation.		
16. OTHER INFORMATION					
Material safety datasheet s	ections which ha	ve been update	ed:		
Revised Section(s): 15 16					
HMIS Classification	: Health Hazard: Flammability: 1 Physical hazard		0 1 0		
NFPA Classification	: Health Hazard: Fire Hazard: 1 Instability: 0	0			
Further information					
HMIS rating scale (0 = minim NFPA rating scale (0 = minim		,			
Disclaimer					
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Disclaimer									
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<u>Numerical Data Presentation</u> 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.									
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End of Material Safety Data Sheet									