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SAFETY DATA SHEET	Ponciplastics. com
	lyondellbasel
Aquathene CM04483	Gen. Variant: SDS_US_GHS
Version 1.0 Revision Dat	te 04/20/2015 Print Date 04/13/2017 SDS No.: BE6569
ECTION 1. PRODUCT AND CO	MPANY IDENTIFICATION
Product name CAS Number:	: Aquathene CM04483 9002-88-4
Chemical characterization	: Polyethylene Homopolymer
Chemical Name Synonyms	: Polyethylene : Ethene, homopolymer, PE
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	: Equistar Chemicals, LP
	LyondellBasell Tower, Suite 300 1221 McKinney St.
	P.O. Box 2583
	Houston Texas 77252-2583
Telephone	: Customer Service 888 777-0232 Product Safety 800 700-0946
Emergency telephone	: CHEMTREC USA 800-424-9300 EQUISTAR 800-245-4532
E-mail address	product.safety@lyb.com
ECTION 2. HAZARDS IDENTIF	FICATION
GHS Classification	
OSHA Hazard Category:	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	
Other hazards No additional information	available.
	available.

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Aquathene CM04483 Version 1.0 Revision D		045 Drint Data 0	Gen. Variant: SDS_US_GHS
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3. Composition/information c	on ingredier	its	
Mixtures			
Ingredients			
Chemical Name		CAS-No.	Weight %
Polyethylene	9002	2-88-4	80.0 - 100.0 %
Contains: Additives and s	tabilizara		
Contains. Additives and s	labilizers		
SECTION 4. FIRST AID MEAS	SURES		
First aid procedures			
General advice	· Tak	e proper precautions	s to ensure your own health and safety
			e and providing first aid.
If inhaled		nove person to fresh a dical attention.	air. If signs/symptoms continue, get
	gen fres Obt Kee	erated during heating h air. ain medical attention.	alation of fumes that may be g of this material, move the person to n. ecessary give Cardio-Pulmonary
In case of skin contact	: If m larg poly Do the Obt	olten material contact e amounts of water to /mer. not attempt to peel po skin.	cts the skin, immediately flush with to cool the affected tissue and polymer from skin as this will remove gency medical attention if burn is deep
In case of eye contact		sh eyes thoroughly wi dical attention if disco	vith water for several minutes and seek omfort persists.
	Cor 15 r Bey adh	minutes.	s) with cool running water for at least DT attempt to remove the material
If swallowed	: Adv	erse health effects du	lue to ingestion are not anticipated.
Notes to physician			
Symptoms		alation of process fum ne nose and throat an	mes and vapors may cause soreness nd coughing.
Hazards	: Dus		es can lead to mechanical irritation.
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	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.	
SECTION 5. FIRE-FIGHTING MEA	SURES	
Flammable properties		
Autoignition temperature	: > 572 °F (300 °C)	
Lower explosion limit	The minimum explosive concentration (MEC) for polymer dust 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 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>	
Protective equipment and p	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	: Wear approved positive pressure self-contained breathing	
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for fire-fighters	apparatus and firefighter protective clothing.
ECTION 6. ACCIDENTAL RELE	ASE MEASURES
Personal precautions	<ul> <li>Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface.</li> <li>Equip emergency responders with proper personal protective equipment (PPE)</li> <li>Avoid generating dust.</li> <li>Avoid dispersal 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>
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Methods for containment / Methods for cleaning up	<ul> <li>On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk.</li> <li>On water, material is insoluble; collect and contain as any solid.</li> <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.</li> </ul>
ECTION 7. HANDLING AND ST	ORAGE
Handling Advice on safe handling	: Material is in a pellet form.
	<ul> <li>Indicidual to find policition.</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 hazard.</li> <li>Static discharge (spark), or other ignition sources, in high dus environments may ignite the dust and result in a dust explosion</li> <li>Electrostatic charge may build during conveying or handling.</li> <li>Equipment handling polymer should be conductive and grounded (earthed) and bonded.</li> <li>Metal containers involved in the transfer of this material should be grounded and bonded.</li> <li>All electrical equipment should conform to applicable electric</li> </ul>
	codes and regulatory requirements for areas handling combustible dusts. After handling, always wash hands thoroughly with soap and

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	water. When bringing the material to processing temperatures vapor may develop may condense in the exhaust ventilation. See section 10. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling
Storage	
Requirements for storage	: Store in a dry location.
areas and containers	<ul> <li>Use good housekeeping practices during storage, transferrir and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. 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 charg</li> </ul>
Control parameters	control parameters
Consult local authorities for accepta	control parameters
Control parameters Ingredients with workplace of Consult local authorities for accepta Exposure controls Engineering measures Follow the recommendations i handle this product. Engineering controls, i.e. encle exposures below acceptable of full conformance, other engine Equipment and vessels handli prevent dust explosions (inerti Ensure that dust-handling systemet	control parameters able exposure limits. In NFPA 654 (as amended and adopted) for equipment used to esed systems, should be used whenever feasible to maintain riteria. When such controls are not feasible, or sufficient to achie ering controls such as local exhaust ventilation should be used. Ing combustible dust from this material should be designed to eith mg) or safely vent dust explosions per NFPA 654 ems (such as exhaust ducts, dust collectors, vessels, and signed in a manner to prevent the escape of dust into the work a
Control parameters Ingredients with workplace of Consult local authorities for accepta Exposure controls Engineering measures Follow the recommendations i handle this product. Engineering controls, i.e. encle exposures below acceptable of full conformance, other engine Equipment and vessels handli prevent dust explosions (inerti Ensure that dust-handling syst processing equipment) are de	control parameters able exposure limits. In NFPA 654 (as amended and adopted) for equipment used to used systems, should be used whenever feasible to maintain riteria. When such controls are not feasible, or sufficient to achie ering controls such as local exhaust ventilation should be used. Ing combustible dust from this material should be designed to eith mg) or safely vent dust explosions per NFPA 654 ems (such as exhaust ducts, dust collectors, vessels, and signed in a manner to prevent the escape of dust into the work a he equipment).
Control parameters Ingredients with workplace of Consult local authorities for accepta Exposure controls Engineering measures Follow the recommendations in handle this product. Engineering controls, i.e. enclose exposures below acceptable of full conformance, other engine Equipment and vessels handli prevent dust explosions (inerti Ensure that dust-handling syst processing equipment) are de (i.e., there is no leakage from	<ul> <li>control parameters</li> <li>able exposure limits.</li> <li>a NFPA 654 (as amended and adopted) for equipment used to used systems, should be used whenever feasible to maintain riteria. When such controls are not feasible, or sufficient to achie ering controls such as local exhaust ventilation should be used. Ing combustible dust from this material should be designed to eith ng) or safely vent dust explosions per NFPA 654</li> <li>ems (such as exhaust ducts, dust collectors, vessels, and signed in a manner to prevent the escape of dust into the work a he equipment).</li> <li>ent</li> <li>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 exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere exceeds recommended limits.</li> </ul>
Control parameters Ingredients with workplace of Consult local authorities for accepta Exposure controls Engineering measures Follow the recommendations in handle this product. Engineering controls, i.e. enclose exposures below acceptable of full conformance, other engine Equipment and vessels handli prevent dust explosions (inerti Ensure that dust-handling syst processing equipment) are det (i.e., there is no leakage from the second Personal protective equipment	<ul> <li>control parameters</li> <li>able exposure limits.</li> <li>a NFPA 654 (as amended and adopted) for equipment used to used systems, should be used whenever feasible to maintain riteria. When such controls are not feasible, or sufficient to achie ering controls such as local exhaust ventilation should be used. Ing combustible dust from this material should be designed to eith ng) or safely vent dust explosions per NFPA 654 erms (such as exhaust ducts, dust collectors, vessels, and signed in a manner to prevent the escape of dust into the work a he equipment).</li> <li>cnt</li> <li>: 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 exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere</li> </ul>

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Hand protection	above the exposure limit they must use appropriate certified respirators.
	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>

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: Pellets.		
Color	: Translucent to white		
Odor	: Slight.		
	. Onght.		
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.		
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: Not classified

Acute inhalation toxicity

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Acute dermal toxicity	: Not classi	fied	
Skin corrosion/irritation	: Not a skin	irritant.	
Serious eye damage/eye irritation	: Not an ey Mechanic	e irritant. al irritation is possible.	
Respiratory or skin sensitization	: Not classi	fied	
Chronic toxicity			
Carcinogenicity	: Not classi Not listed	fied by IARC, NTP, OSHA or I	EPA.
Germ cell mutagenicity	: Not classi	fied	
Reproductive toxicity			
Effects on fertility / Effects on or via lactation	: Not classi	fied	
Effects on Development	: Not classi	fied	
Target Organ Systemic Toxicant - Single exposure		ance or mixture is not clas cant, single exposure.	ssified as specific target
Target Organ Systemic Toxicant - Repeated exposure		ance or mixture is not clas cant, repeated exposure.	ssified as specific target
Aspiration hazard	: Not applic	able.	
12. ECOLOGICAL INFORMATION			
Ecotoxicology Assessment			
Acute aquatic toxicity	: Not classi	fied	
Chronic aquatic toxicity	: Not classi		
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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 other wildlife may eat pellets which may obstruct their intestinal tracts.</li> </ul>
SECTION 13. DISPOSAL CONSID	ERATIONS
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.
	This material is classified as a Non-hazardous Material by RCRA.
SECTION 14. TRANSPORT INFO	RMATION
Not regulated for transport	
SECTION 15. REGULATORY INFO	ORMATION
If identified components of this pro will be listed below.	oduct are listed under the TSCA 12(b) Export Notification rule, they
SARA 302/304	
	emicals regulated under SARA 302/304.
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#### SARA 313

This product contains no known chemicals regulated under SARA 313.

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#### State Reporting

This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65. However, LyondellBasell has not tested for the presence of listed chemical substances.

This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act:

13463-67-7 Titanium Dioxide

This product contains the following chemicals regulated by Massachusetts' Right to Know Law: 13463-67-7 Titanium Dioxide

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act: 13463-67-7 Titanium Dioxide

#### 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	Not Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Not Compliant
Korea	KECI	Not Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Not Determined

#### 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 preregistered 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)

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

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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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