SAFETY DATA SHEET	lyondellbasell
	Gen. Variant: SDS_CA_GHS
Adflex Q 108 F Version 1.0 Revision Da	te 04/20/2015 Print Date 05/30/2016 SDS No.: BE5037
Version 1.0 Revision Da	le 04/20/2015 FIIII Dale 05/30/2016 SDS No BE3037
SECTION 1. PRODUCT AND C	OMPANY IDENTIFICATION
Product name	: Adflex Q 108 F
CAS Number:	9010-79-1
Chemical characterization Chemical Name	<ul> <li>Polypropylene copolymer</li> <li>1-Propene, Polymer with Ethene</li> </ul>
Synonyms	Ethylene-Propylene copolymer, 1-Propene-Ethylene- Copolymer
Identified uses	: Manufacture of plastic articles by injection molding, extrusion or other conversion process.
Prohibited uses	<ul> <li>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</li> </ul>
Company	<ul> <li>Equistar Chemicals, LP</li> <li>LyondellBasell Tower, Suite 300</li> <li>1221 McKinney St.</li> <li>P.O. Box 2583</li> <li>Houston Texas 77252-2583</li> </ul>
Telephone	: Customer Service 888 777-0232 Product Safety 800 700-0946
Emergency telephone	: CANUTEC 613 996-6666 LYONDELL 800-245-4532
E-mail address	product.safety@lyb.com
SECTION 2. HAZARDS IDENTI	FICATION
GHS Classification	
Not a dangerous substar	nce or mixture according to the Globally Harmonized System (GHS).
Label elements	
Not a dangerous substar	nce or mixture according to the Globally Harmonized System (GHS).
Other hazards	
If small particles are gen form combustible dust co	erated during further processing, handling or by other means, may procentrations in air.
3. Composition/information on	ingredients
Mixtures	
Ingredients	
	1 / 12

### SAFETY DATA SHEET lyondellbase ш Gen. Variant: SDS\_CA\_GHS Adflex Q 108 F Version 1.0 Revision Date 04/20/2015 Print Date 05/30/2016 SDS No.: BE5037 Chemical Name CAS-No. Weight % 1-Propene, Polymer with Ethene 9010-79-1 > 99.5 % Contains: Additives and stabilizers **SECTION 4. FIRST AID MEASURES** First aid procedures General advice : Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical 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	<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 de or extensive.</li> </ul>
In case of eye contact	: Flush eyes thoroughly with water for several minutes and se medical attention if discomfort persists.
	In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at leas 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention.
If swallowed	: Adverse health effects due to 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 can lead to mechanical irritation. Molten polymer may cause thermal burns.
Treatment	: Treatment of overexposure should be directed at the contro symptoms and the clinical condition of the patient.
	2/12

# Adflex Q 108 F

Version 1.0 Revision Date 04/20/2015

Print Date 05/30/2016

Gen. Variant: SDS\_CA\_GHS SDS No.: BE5037

TION 5. FIRE-FIGHTING MEA	SURES
Flammable properties	
Autoignition temperature	: > 572 °F (300 °C)
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer d 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 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	-
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.
	3/12

## Adflex Q 108 F

Version 1.0

Revision Date 04/20/2015

Print Date 05/30/2016

SDS No.: BE5037

lvondellbase

Gen. Variant: SDS CA GHS

### **SECTION 6. ACCIDENTAL RELEASE MEASURES** Personal precautions : Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface. Equip emergency responders with proper personal protective 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. : Do not flush into surface water or sanitary sewer system. Environmental precautions Methods for containment / : On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk. Methods for cleaning up 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 engineering practices. Reclaim where possible. SECTION 7. HANDLING AND STORAGE 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 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 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 4/12

SAFETY DATA SHEET				ndellbasell
Adflex Q 108 F			Gen. V	ariant: SDS_CA_GHS
Version 1.0 Revision Date 04	4/20/2015	Print Date 0	5/30/2016	SDS No.: BE5037
	section 10 Refer to N Dust Expl	). IFPA 654, Stan osions from the	dard for the Pr Manufacturing	nust ventilation. See evention of Fire and g, Processing, and lids, for safe handling.
Storage				
Requirements for storage areas and containers	Use good and hand should be Store awa oxidizing Keep con	ling. Process er used to avoid e ay from excessi agents. tainer closed to	nclosures and a excessive dust ve heat and aw prevent conta	ay 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	

## Adflex Q 108 F

Version 1.0

Revision Date 04/20/2015

Print Date 05/30/2016

SDS No.: BE5037

Gen. Variant: SDS CA GHS

lvondellbase

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.	٦
Skin and body protection	: Wear suitable protective clothing.	
Hygiene measures	<ul> <li>Selection of appropriate personal protective equipment shoul 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>	

# Adflex Q 108 F

Version 1.0 Revision Date 04/20/2015

Print Date 05/30/2016

Gen. Variant: SDS\_CA\_GHS SDS No.: BE5037

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.
		7/12

# Adflex Q 108 F

Version 1.0 Revision Date 04/20/2015

Print Date 05/30/2016

Gen. Variant: SDS\_CA\_GHS

lyondellbasell

SDS No.: BE5037

Reactivity	· No known reactivity bazards
Reactivity	: No known reactivity hazards.
Chemical stability	: Stable under normal conditions.
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.
Hazardous reactions	: Will not occur.
CTION 11. TOXICOLOGICAL	
Acute toxicity	
Acute toxicity	: Not classified
Acute inhalation toxicity	: Not classified
Acute dermal toxicity	: Not classified
Acute dermar toxicity	
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

SAFETY DATA SHEET	lyondellbasel
	Gen. Variant: SDS CA GHS
Adflex Q 108 F Version 1.0 Revision Date	
Version 1.0 Revision Date	
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	
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	: Ecotoxicity is expected to be minimal based on the low water solubility of polymers.

SAFETY DATA	A SHEET			Ѓ I	llbasell
Adflex Q 108	F			Gen. Variant:	SDS_CA_GHS
Version 1.0	Revision Date 04	4/20/2015 F	Print Date 05/30/20	16 S	DS No.: BE5037
		other wildlife intestinal trac	may eat pellets whi ts.	ch may obstru	ct their
SECTION 13. DISP	OSAL CONSIDE	RATIONS			
Further informa	ation	transported a applicable lav	material should be nd disposed of or r vs and regulations practices. Reclaim v ssible.	eclaimed in con and in conform	nformance with ance with good
SECTION 14. TRAI		MATION			
SECTION 15. REG		RMATION			
Other internationa	-				
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SAFETY DATA S	HEET		lyondellbase
Adflex Q 108 F	ining Data 04/00/0045	Drint Data 05/00/	Gen. Variant: SDS_CA_GH
ersion 1.0 Re	vision Date 04/20/2015	Print Date 05/30/	2016 SDS No.: BE50
ECTION 16. OTHER I	NEORMATION		
Further informatio			
HMIS Classification		urd: 0	
	Flammability Physical haz		0 1 0
NFPA Classificati	on : Health Haza Fire Hazard: Instability: 0		0 0
NFPA rating scale Material safety d	0 = minimal hazard; 4 = se (0 = minimal hazard; 4 = s atasheet sections which	evere hazard) have been update	ed:
HMIS rating scale NFPA rating scale Material safety d	0 = minimal hazard; 4 = se (0 = minimal hazard; 4 = s atasheet sections which First Edition April 15 20	evere hazard) h <b>ave been update</b> )15	ed:
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HMIS rating scale NFPA rating scale <b>Material safety d</b> Updated format ; This document is data. Information is corr It is not a specific Before using a pr should make thei use and can be u IMPLIED (INCLU PARTICULAR PU TO BY THE PAR This product(s) m	0 = minimal hazard; 4 = se (0 = minimal hazard; 4 = se (atasheet sections which First Edition April 15 20 D generated for the purpose rect to the best of our know ation sheet nor should any oduct sold by a company of own independent determines sed safely and legally. SEI DING ANY WARRANTY OF JRPOSE OR ANY WARRAT TIES IN A CONTRACT. ay not be used in:	evere hazard) have been update of 5 isclaimer of distributing heal wledge at the date of displayed data be of the LyondellBase ination that the proo LLER MAKES NO V OF MERCHANTABI ANTY) OTHER THA	th, safety, and environmental of the SDS publication. construed as a specification. Il family of companies, users duct is suitable for the intended WARRANTY; EXPRESS OR LITY OR FITNESS FOR A AN AS SEPARATELY AGREED
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## Adflex Q 108 F

Version 1.0

Revision Date 04/20/2015

Print Date 05/30/2016

SDS No.: BE5037

Gen. Variant: SDS CA GHS

#### Disclaimer

regulatory classification.

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