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	lyondellbase
lifax TYC 459P 7C45	
ersion 1.1 Revision Dat	te 10/01/2019 Print Date 01/06/2022 SDS No.: BE139
IDENTIFICATION OF THE SU	BSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Trade name CAS Number:	: Hifax TYC 459P 7C45 : Mixture
Chemical name	: Compounded polyolefin
Synonyms	: Polyolefin, Compounded polymer
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
<u>Company Address</u> Equistar Chemicals, LP LyondellBasell Tower, Suite	Company TelephoneCustomer Service 888 777-0232300product.safety@lyb.com
P.O. Box 2583 Houston Texas 77252-2583 <u>Emergency telephone num</u> EQUISTAR 800-245-4532	
E-mail addross	: product safety@lyb.com
E-mail address Responsible/issuing person	: product.safety@lyb.com
	: product.safety@lyb.com
Responsible/issuing person	: product.safety@lyb.com
Responsible/issuing person	: product.safety@lyb.com
Responsible/issuing person HAZARDS IDENTIFICATION GHS Classification	: product.safety@lyb.com
Responsible/issuing person HAZARDS IDENTIFICATION GHS Classification Combustible dust	: Warning
Responsible/issuing person HAZARDS IDENTIFICATION GHS Classification Combustible dust Label elements	
Responsible/issuing person HAZARDS IDENTIFICATION GHS Classification Combustible dust Label elements Signal word	 Warning If small particles are generated during further processing, handling or by other means, may form combustible dust
Responsible/issuing person HAZARDS IDENTIFICATION GHS Classification Combustible dust Label elements Signal word Hazard Statements	 Warning If small particles are generated during further processing, handling or by other means, may form combustible dust

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No additional information avai	lable.	
3. COMPOSITION/INFORMATION O	N INGREDIENTS	
Mixtures		
Components	040.01	
Chemical name	CAS-No.	<u>Weight %</u>
Proprietary blend of polyolefinic polymers	Mixture	50.0 - 80.0 %
polymeio	I	
4. FIRST AID MEASURES		
4. FIRST AID MEASURES		
General advice	: Take proper precautions to obefore attempting rescue an	ensure your own health and safety discourse of the second se
If inhaled		If signs/symptoms continue, get
	medical attention. In case of excessive inhalati	on of fumes that may be generated
	during heating of this materian Obtain medical attention.	al, move the person to fresh air.
	Keep person warm, if neces	sary give Cardio-Pulmonary
	Resuscitation (CPR)	
In case of skin contact	: If molten material contacts th	he skin, immediately flush with
		ool the affected tissue and polymer. ner from skin as this will remove the
	skin.	
	or extensive.	y medical attention if burn is deep
In case of eye contact	: Flush eyes thoroughly with with with with a medical attention if discomformed attention if discomformed attention	water for several minutes and seek
	: In case of eye contact with r Continuously flush eye(s) wi	nolten polymer: th cool running water for at least 15
	minutes. Bevond flushing, DO NOT a	ttempt to remove the material
	adherent to the eye(s).	
	Immediately seek medical a	ttention.
If swallowed	Adverse health effects due t	o ingestion are not anticipated.
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Notes to physician	
Symptoms	: Inhalation of process fumes and vapors may cause soreness i 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 or symptoms and the clinical condition of the patient.
5. 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	 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.
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 generate flammable vapors. 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 container. Always stay away from tanks engulfed in fire. Do not attempt to get on top of storage containers involved in fire. Cool storage containers with large volumes of water even afte fire is out.
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6. ACCIDENTAL RELEASE MEAS	URES
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.
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Methods for containment / Methods for cleaning up	 On land, sweep/shovel into suitable disposal containers or 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 with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.
7. Handling and storage	
Precautions for safe handlin	g
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.
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	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 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.
Fire-fighting class	: Polymer will burn but does not easily ignite.
Conditions for safe storage, in	cluding any incompatibilities
Requirements for storage areas and containers	 Store in a dry location. Use good housekeeping practices during storage, transferring 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. Keep container closed to prevent contamination. Take measures to prevent the build up of electrostatic charge.
Specific end use(s)	
	: See Section 1.
8. EXPOSURE CONTROLS/PERSON	NAL PROTECTION

Control parameters

Ingredients with workplace control parameters

Occupational Exposure Limits

Components	CAS-No.	Туре	Limit Value	Basis	Additional
				Revision Date	Information
Materials that can be formed when		TWA	10 mg/m3 inhalable	US (ACGIH) 2005	
handling this			IIIIalable	2005	
product: Non-					
specified (inert or					
nuisance) dust					

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Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust	Т	NA	3 mg/m3 respirable	US (ACGIH) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust	Т\	NA	15 mg/m3 total dust	US (OSHA) 2005	
Materials that can be formed when handling this product: Non- specified (inert or nuisance) dust	Τ	NA	5 mg/m3 respirable	US (OSHA) 2005	

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 exposure limit 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 certified respirators.
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 eyes due to airborne particles which may result from handling this product.
Skin and body protection	: Wear suitable protective clothing.
Hygiene measures	 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. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.
PHYSICAL AND CHEMICAL F	PROPERTIES
Appearance Color	: Pellets. Black
Color	: Black
Color Odor	: Black : Slight.
Color Odor Odor Threshold	: Black: Slight.: No value available.
Color Odor	 Black Slight. No value available. No Data Available.
Color Odor Odor Threshold Flash point	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du
Color Odor Odor Threshold Flash point Lower explosion limit	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution.
Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable.
Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas)	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite.
Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C
Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C
Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature Decomposition temperature	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C not determined
Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature Decomposition temperature Melting point/range	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C not determined 50 - 170 °C
Color Odor Odor Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature Decomposition temperature Melting point/range Boiling point/boiling range	 Black Slight. No value available. No Data Available. The minimum explosive concentration (MEC) for polymer du varies according to particle size distribution. Not applicable. Polymer will burn but does not easily ignite. Not considered an oxidizing agent. > 300 °C not determined 50 - 170 °C Not applicable.

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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	,		
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 products	: Not expected to decompose under normal conditions.		
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 classif			
Chronic toxicity				
Component Name Carbon Black	NTP	IARC 2B	OSHA Present	
Carcinogenicity	carcinoger This mater	component(s) listed b nic to humans. rial is encapsulated ir ease under normal co	y IARC as possibly a thermoplastic resin with pnditions of use, transportation,	
Germ cell mutagenicity Reproductive toxicity	: Not classif	fied		
Effects on fertility / Effects on or via lactation	: Not classif	fied		
Effects on Development	: Not classif	fied		
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 applica	able.		
2. Ecological information				
Ecotoxicology Assessment				
Short-term (acute) aquatic hazard	: Not classif	ïed		
Long-term (chronic) aquatic hazard	: Not classif	ïed		
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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				
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	 Ecotoxicity is expected to be minimal based on the low water solubility of polymers. No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts. 			
13. Disposal considerations				
Waste treatment methods				
Product	: 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.			
14. TRANSPORT INFORMATION				
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Not regulated for transport

15. REGULATORY INFORMATION

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 may contain trace levels of the following chemical substance(s) regulated under California Proposition 65. However, LyondellBasell has not tested for the presence of listed chemical substances. It is the responsibility of the California business owner to develop his or her own regulatory compliance plan. Contact Product Safety for further information at product.safety@lyb.com.

Substance	CASRN	Type of Toxicity				
		Carcinogen	Developmental	Repro-Male	Repro- Female	
Mercury	7439-97-6		Х			
Lead	7439-92-1	Х	Х	Х	Х	
Cadmium	7440-43-9	Х	Х	Х		
Chromium	7440-47-3	Х				
Nickel	7440-02-0	Х				
Arsenic	7440-38-2	Х				
Hexachlorobenzene	118-74-1	Х	Х			

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

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Hifax TYC	459P7C45			Gen. V	ariant: SDS_US_GHS	
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14807-96-6 546-93-0 1333-86-4	Talc, Magnesium S Magnesium Carbon Carbon Black					
This product cor	ntains the following che	emicals reg	ulated by Massa	achusetts' Righ	nt to Know Law:	
14807-96-6 546-93-0	Talc, Magnesium S Magnesium Carbon					
This product cor	ntains the following che	emicals reg	ulated by Penns	sylvania's Righ	t to Know Act:	
14807-96-6 1333-86-4	Talc, Magnesium S Carbon Black	ilicate				

Other international regulations

Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

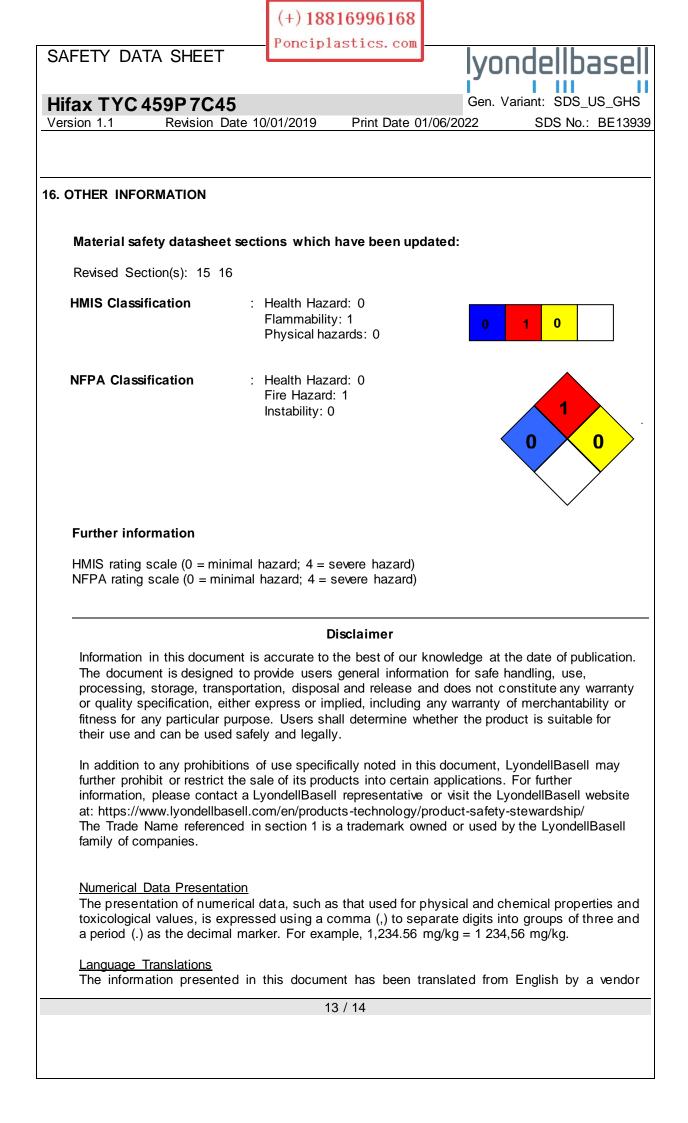
*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

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 registered under REACh, 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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End	of Material Safety Data Sh	neet				
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