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SAFETY DATA SHEET	lyondellbasel
Hifax TYC 2048P C13	077 Gen. Variant: SDS_US_GHS
	te 10/01/2019 Print Date 01/06/2022 SDS No.: BE3303
IDENTIFICATION OF THE SU	BSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Trade name	: Hifax TYC 2048P C13077
CAS Number:	: Mixture
Chemical name	: Compounded polyolefin : Polyolefin Compounded polymer
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
Company Address	Company Telephone
Equistar Chemicals, LP	Customer Service 888 777-0232
LyondellBasell Tower, Suite	300 product.safety@lyb.com
1221 McKinney St.	
P.O. Box 2583 Houston Texas 77252-2583	3
Emergency telephone nun	<u>nber</u>
EQUISTAR 800-245-4532	
E-mail address	: product.safety@lyb.com
Responsible/issuing person	
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	
	1 / 14

AFETY DATA SHEET	Ponciplastics.com	lyondellbasel
lifax TYC 2048P C130		Iyondelibasel
ersion 1.1 Revision Date	77	Gen. Variant: SDS_US_GHS
		06/2022 SDS No.: BE330
No additional information a	vailable.	
COMPOSITION/INFORMATION		
xtures		
Components		
Chemical name	CAS-No.	Weight %
Proprietary blend of polyolefinion polymers	c Mixture	80.0 - 100.0 %
Contains: Additives, stabilizer	s and fillers	
FIRST AID MEASURES		
	. Toko proper processione to	anaura your own boolth and actat
General advice	before attempting rescue a	ensure your own health and safety nd providing first aid.
If inhaled	medical attention.	r. If signs/symptoms continue, get
	during heating of this mater Obtain medical attention.	tion of fumes that may be generate rial, move the person to fresh air. ssary give Cardio-Pulmonary
	Resuscitation (CPR)	
In case of skin contact		the skin, immediately flush with cool the affected tissue and polymer
		mer from skin as this will remove th
		cy medical attention if burn is deep
In case of eye contact	: Flush eyes thoroughly with medical attention if discome	water for several minutes and seek fort persists.
	: In case of eye contact with	
	minutes.	vith cool running water for at least 1
	Beyond flushing, DO NOT adherent to the eye(s). Immediately seek medical a	attempt to remove the material attention.
If swallowed	: Adverse health effects due	to ingestion are not anticipated.
	2 / 14	

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SAFETY DATA SHEET	Ponciplastics.com
Hifax TYC 2048P C1307 Version 1.1 Revision Date 1	
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 after fire is out.
	3 / 14

Hifax TYC 2048P C13077 Gen. Variant: SDS_US		(+) 18816996168	
Accidential Revision Date 10/01/2019 Print Date 01/06/2022 SDS No.: Accidential Release Measures Personal precautions : Equip responders with proper protection. Creates dangerous slipping hazard on any hard smootl surface. Equip emergency responders with proper personal prot equipment (PPE) Avoid generating dust. Avoid generating dust. Avoid generating dust. Avoid generating dust. Potential combustible dust hazard. Polymer particles create slipping hazard on hard smoot surfaces. Environmental precautions : Do not flush into surface water or sanitary sewer syster acuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as a solid. All recovered material should be packaged, labeled, transported and disposed for reclaimed in conformance wite engineering practices. Reclaim where possible. Handling and storage : Material is in a pellet form. If converted to small particles during further processing, handling, or by other means, may form combustible dus concentrations in air. Avoid dust accumulation. Avoid generating dust; fine dust suspended in air and in presence of an ignition source is a potential dust explos hazard. Static discharge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion. Electrostatic charge may build during conveying or hance Equipment handling polymer should be conductive and	lyondellbas	Ponciplastics.com	Y DATA SHEET
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 prot equipment (PPE) Avoid dispersal of dust in the air (i.e., clearing dust surf with compressed air). Potential combustible dust hazard. Polymer particles create slipping hazard on hard smoot surfaces. Environmental precautions : Do not flush into surface water or sanitary sewer syster vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as a solid. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance applicable laws and regulations and in conformance wit engineering practices. Reclaim where possible. Handling and storage Precautions for safe 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 dus concentrations in air. Avoid dust accumulation in enclosed space. Use dust collection systems designed per NFPA 654 to dust accumulation. Avoid generating dust, fine dust suspended in air and in presence of an ignition source is a potential dust explosion Electrostatic charge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion	Gen. Variant: SDS_US_G 01/06/2022 SDS No.: BE		
Personal precautions Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth surface. Equip emergency responders with proper personal prot equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the air (i.e., clearing dust surf with compressed air). Potential combustible dust hazard. Polymer particles create slipping hazard on hard smoot surfaces. Environmental precautions : Do not flush into surface water or sanitary sewer syster vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as ar solid. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance applicable laws and regulations and in conformance witl engineering practices. Reclaim where possible. Handling and storage : Metrial is in a pellet form. If converted to small particles during further processing, handling, or by other means, may form combustible dus concentrations in air. Avoid dust accumulation. Avoid generating dust; fine dust suspended in air and in presence of an ignition source is a potential dust explos hazard. Static discharge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or hance Equipment handling polymer should be conductive and		<u>, , , , , , , , , , , , , , , , , , , </u>	
Creates dangerous slipping hazard on any hard smooth surface. Equip emergency responders with proper personal prot equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the air (i.e., clearing dust surf 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 vacuum using equipment which avoids ignition risk. Methods for containment / : On land, sweep/shovel into suitable disposal containers vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as ar solid. All recovered material is insoluble; collect and contain as ar applicable laws and regulations and in conformance with engineering practices. Reclaim where possible. Handling and storage : Material is in a pellet form. If converted to small particles during further processing, handling, or by other means, may form combustible dus concentrations in air. Avoid dust accumulation. Avoid generating dust; fine dust suspended in air and in presence of an ignition source is a potential dust explosion accumulation. Avoid dist cickarge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or hance Equipment handling polymer should be conductive and <td></td> <td>RES</td> <td>INTAL RELEASE MEASUR</td>		RES	INTAL RELEASE MEASUR
Methods for containment / : On land, sweep/shovel into suitable disposal containers vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as ar solid. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformanc applicable laws and regulations and in conformance with engineering practices. Reclaim where possible. Handling and storage Precautions for safe 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 dus concentrations in air. Avoid dust accumulation. Avoid dust accumulation. Avoid generating dust; fine dust suspended in air and in presence of an ignition source is a potential dust explos hazard. Static discharge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion	ping hazard on any hard smooth onders with proper personal protecti in the air (i.e., clearing dust surface lust hazard.	Creates dangerous slipp surface. Equip emergency respor equipment (PPE) Avoid generating dust. Avoid dispersal of dust in with compressed air). Potential combustible du Polymer particles create	nal precautions :
Methods for cleaning up vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as ar solid. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance applicable laws and regulations and in conformance with engineering practices. Reclaim where possible. Handling and storage Precautions for safe 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 dus concentrations in air. Avoid dust accumulation in enclosed space. Use dust collection systems designed per NFPA 654 to dust accumulation. Avoid generating dust; fine dust suspended in air and in presence of an ignition source is a potential dust explos hazard. Static discharge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or hanc Equipment handling polymer should be conductive and	e water or sanitary sewer system.	Do not flush into surface	onmental precautions
Precautions for safe 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 dus concentrations in air. Avoid dust accumulation in enclosed space. Use dust collection systems designed per NFPA 654 to dust accumulation. Avoid generating dust; fine dust suspended in air and in presence of an ignition source is a potential dust explos hazard. Static discharge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or hand Equipment handling polymer should be conductive and	nt which avoids ignition risk. soluble; collect and contain as any hould be packaged, labeled, ad of or reclaimed in conformance w ulations and in conformance with go	vacuum using equipment On water, material is insc solid. All recovered material sh transported and disposed applicable laws and regul	
 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 dus concentrations in air. Avoid dust accumulation in enclosed space. Use dust collection systems designed per NFPA 654 to dust accumulation. Avoid generating dust; fine dust suspended in air and in presence of an ignition source is a potential dust explos hazard. Static discharge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or hand Equipment handling polymer should be conductive and 			ng and storage
If converted to small particles during further processing, handling, or by other means, may form combustible dus concentrations in air. Avoid dust accumulation in enclosed space. Use dust collection systems designed per NFPA 654 to dust accumulation. Avoid generating dust; fine dust suspended in air and in presence of an ignition source is a potential dust explos hazard. Static discharge (spark), or other ignition sources, in hig environments may ignite the dust and result in a dust explosion Electrostatic charge may build during conveying or hand Equipment handling polymer should be conductive and			autions for safe handling
4 / 14	ticles during further processing, eans, may form combustible dust in in enclosed space. ems designed per NFPA 654 to avo ine dust suspended in air and in the source is a potential dust explosion , or other ignition sources, in high d e the dust and result in a dust y build during conveying or handling	If converted to small parti handling, or by other mea concentrations in air. Avoid dust accumulation Use dust collection syste dust accumulation. Avoid generating dust; fin presence of an ignition so hazard. Static discharge (spark), environments may ignite explosion Electrostatic charge may	e on safe handling :
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Hifax TYC 2048 Version 1.1 Re	evision Date 10		Print Date 0		SDS No.: BE3303
			(earthed) and b		
			ainers involved grounded and	in the transfer of th	is material
		All electric	al equipment s	hould conform to ap	
		codes and combustibl		uirements for areas	nandling
			ling, always wa	ish hands thoroughly	/ with soap and
		water. When bring	ging the materi	al to processing terr	peratures vapors
			op may conden	ise in the exhaust ve	
				dard for the Preventi Manufacturing, Pro	
				Particulate Solids, fo	
Fire-fighting class	:	Polymer w	ill burn but doe	s not easily ignite.	
Conditions for sa	-		-	ties	
Requirements for s areas and contained	•		dry location. housekeeping	practices during stor	rage, transferring
		and handli	ng. Process en	closures and adequ	ate ventilation
				excessive dust accur we heat and away fro	
	oxidizing a	igents.		-	
				prevent contaminati t the build up of electronic	
					-
Specific end use(s)				
	:	See Section	on 1.		
8. EXPOSURE CONTR			CTION		
			onon		
Control parameters					
Ingredients with	workplace con	trol param	eters		
Occupational Exp	oosure Limits				
Components	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Materials that can		TWA	10 mg/m3	US (ACGIH)	
be formed when handling this			inhalable	2005	
product: Non-					
specified (inert or nuisance) dust					
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SAFETY	DATA	SHEET	

Hifax TYC 2048P C13077

Revision Date 10/01/2019 Version 1.1

Print Date 01/06/2022

Gen. Variant: SDS US GHS SDS No.: BE3303

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Materials that can	TWA	3 mg/m3	US (ACGIH)	
be formed when		respirable	2005	
handling this				
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				

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
	6 / 14

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SAFETY DATA SHEET	Ponciplastics.com lyondellbase
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Hifax TYC 2048P C130 Version 1.1 Revision Date	
	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 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. 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 P	ROPERTIES
Appearance	: Pellets.
Color	: Black.
Odor	: Slight.
Odor Threshold	: No value available.
Flash point	: No Data Available.
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer dua 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	: > 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
Water solubility	: Insoluble.

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SAFETY DATA SHEET	Ponciplastics.com			
Hifax TYC 2048P C130 Version 1.1 Revision Date				
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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	: 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	ION			
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.			
	8 / 14			

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Version		Date 10/	01/2019	Print Date 0	1/06/2022	SDS	No.: BE3303
	spiratory or skin nsitization	:	Not classifie	ed			
Cn	ronic toxicity						_
	Component Name Carbon Black	١	NTP	IARC 2B		OSHA Present	_
	Titanium Dioxide			2B 2B		Present	
	Silica, Crystalline - Quartz		is a human inogen	1		Present	
Ca	rcinogenicity		Not classifie	ad	1		
Ua Ua	remogeniency						
			Not classifie Contains co		sted by IAF	RC as carcinoge	enic to
			humans.		-	-	
						nermoplastic restions of use, tran	
			and storage				
Ge	erm cell mutagenicity	:	Not classifie	ð			
Re	productive toxicity						
	ects on fertility / ects on or via lactatior		Not classifie	ed			
Ette	ects on Development	:	Not classifie	ed			
Та	rget Organ Systemic	:	The substa	nce or mixture	is not clas	ssified as specif	ic target
	xicant - Single expos			ant, single exp			eger
	rget Organ Systemic	:				ssified as specif	ic target
	xicant - Repeated posure		organ toxica	ant, repeated	exposure.		
As	piration hazard	:	Not applicat	ole.			
12. Eco	logical information						
Ecoto	oxicology Assessmer	nt					
Sh	ort-term (acute) aqua	atic :	Not classifie	ed			
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SAFETY DATA SHEET	Ponciplastics.com			
Hifax TYC 2048P C130				
Version 1.1 Revision Date	10/01/2019 Print Date 01/06/2022 SDS No.: BE330			
hazard Long-term (chronic) aquatic hazard	: Not classified			
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.			
	10 / 14			

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Hifax TYC 2048P C13077

SAFETY DATA SHEET

Version 1.1

Revision Date 10/01/2019

Print Date 01/06/2022

Gen. Variant: SDS_US_GHS 22 SDS No.: BE3303

Iyondellbase

14. TRANSPORT INFORMATION

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
Cadmium	7440-43-9	Х	Х	Х	
Chromium	7440-47-3	Х			
Lead	7439-92-1	Х	Х	Х	Х
Nickel	7440-02-0	Х			
Arsenic	7440-38-2	Х			
Mercury	7439-97-6		Х		
11 / 14					

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Hifax TYC 2048P C13077

SAFETY DATA SHEET

Version 1.1 Revision Date 10/01/2019 Print Date 01/06/2022

Gen. Variant: SDS US GHS

lyondellbase

SDS No.: BE3303

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

14807-96-6 Talc, Magnesium Silicate

Carbon Black 1333-86-4

14808-60-7 Silica, Crystalline - Quartz

This product contains the following chemicals regulated by Massachusetts' Right to Know Law:

14807-96-6	Talc, Magnesium Silicate
14808-60-7	Silica, Crystalline - Quartz

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

14807-96-6	Talc, Magnesium Silicate
1333-86-4	Carbon Black

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.

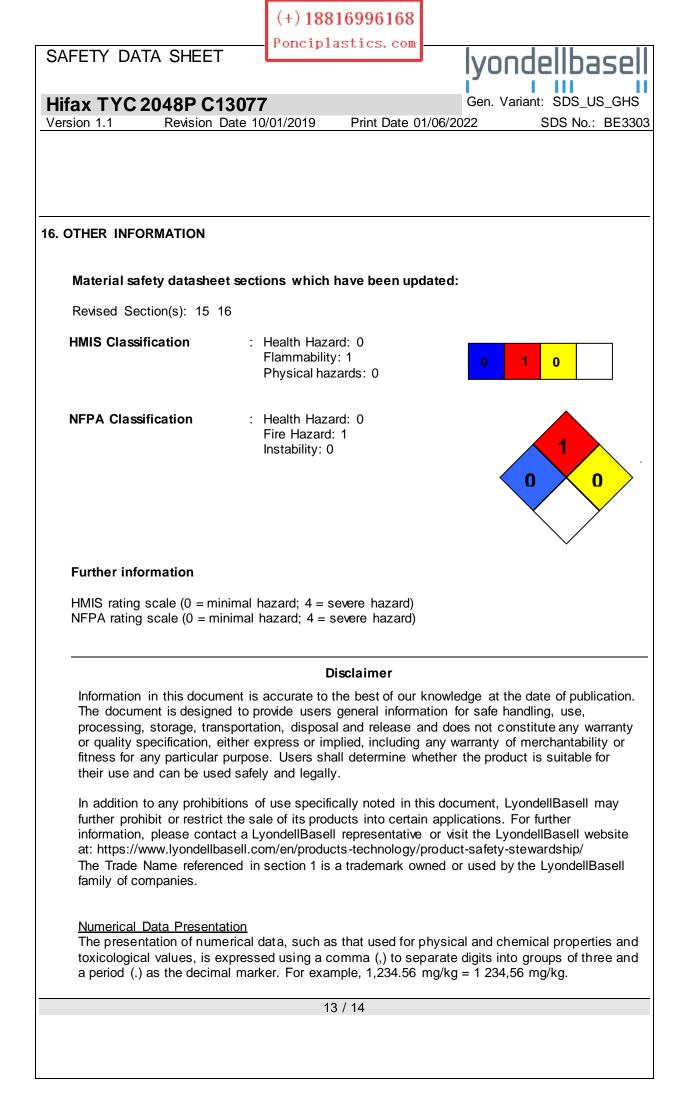
Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Not Compliant*
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	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 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.

12 / 14



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SAFETY DATA SHEET		lyondellbasell
Hifax TYC 2048P C13077		Gen. Variant: SDS_US_GHS
Version 1.1 Revision Date 10/	01/2019 Print Date 01/06/20	022 SDS No.: BE3303

Language Translations The information presented in this document has been translated from English by a vendor LyondellBasell believes to be reliable. LyondellBasell and its vendor have made a good-faith effort to verify the accuracy of the translation, but assume no liability or other responsibility for any errors that may have occurred. Please refer to our web site (www.lyondellbasell.com) for the original document written in English.

End of Material Safety Data Sheet