	(+	) <b>18816996168</b> nciplastics.com	
SAFETY DATA		nciplastics, com	lvoodollbacoll
-	ion (EC) No. 1907/2006		lyondellbasell
Hifax TRC 221		0 Print Data 12	Gen. Variant: SDS_GB
Version 1.3	Revision Date 11/06/201	Print Date 12	/23/2019 SDS No.: BE8102
1. Identification of th	ne substance/mixture a	nd of the company/u	ndertaking
1.1 Product identifie	r		
Trade name Synonyms Substance name	: Polyole	TRC 221X/1 BLACK efin, Compounded poly ounded polyolefin	vmer
1.2 Relevant identifi	ed uses of the substand	ce or mixture and us	es advised against
Identified uses		acture of plastic article er conversion process.	s by injection molding, extrusion
Prohibited uses	device: Applica	s; Health Canada clas	nent implantation into the body;
Company	pplier of the safety data keting Company B.V.	a sheet Registration nur NA	nber Telephone 31 (0) 10 275 55 00
Netherlands			
E-mail address Responsible/issuing		safety@lyb.com	
1.4 Emergency telep	ohone number		
Basell Sales & Mar	keting Company B.V.		+32 3 575 1235
Poison Center: National Poisons In UK: +44 131 242 13 24 hours all days			
<ol> <li>2. Hazards identifica</li> <li>2.1 Classification of</li> </ol>	tion the substance or mixto	ıre	
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### Classification (REGULATION (EC) No 1272/2008)

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Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 2.2 Label elements

### Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 2.3 Other hazards

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

### 3. Composition/information on ingredients

### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No.	Classification (REGULATION (EC) No 1272/2008)	Weight %
Proprietary blend of polyolefinic polymers	Mixture	Not Classified	50.0 - 80.0 %

Contains: Additives, stabilizers and fillers

### 4. First aid measures

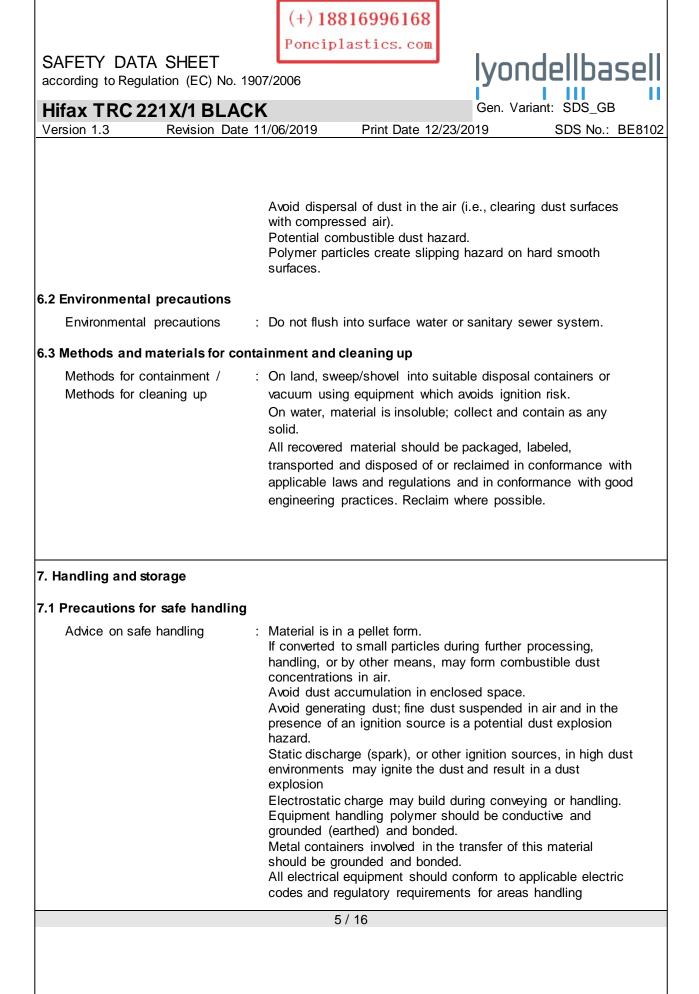
### 4.1 Description of first-aid measures

General advice	: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.
lf inhaled	<ul> <li>Remove person to fresh air. If signs/symptoms continue, get medical attention.</li> <li>In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air.</li> </ul>
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Hifax TRC 221X/1 BLA Version 1.3 Revision Date	-
	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 deep or extensive.</li> </ul>
In case of eye contact	<ul> <li>Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.</li> <li>In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention.</li> </ul>
If swallowed	: Adverse health effects due to ingestion are not anticipated.
.2 Most important symptoms ar	nd effects, both acute and delayed
Symptoms	: Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing.
Hazards	: Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns.
.3 Indication of any immediate	medical attention and special treatment needed
Treatment	: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
. Fire-fighting measures	
.1 Extinguishing media	
Suitable extinguishing media	: SMALL FIRE: Use dry chemical, CO2, or water spray.
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	: LARGE FIRES: Use water spray hose nozzle:	s from a safe location.
Unsuitable extinguishing media 5.2 Special hazards arising from th	: None known.	
	: Keep away from heat and so In case of fire hazardous deco produced such as:	omposition products may be
	Carbon monoxide, carbon dic hydrocarbons (smoke).	ixide and unburned
5.3 Advice for firefighters		<i>w c c c c c c c c c c</i>
Special protective equipment for fire-fighters	: Wear approved positive press apparatus and firefighter prote	
Further information	flammable vapors. Move containers from fire are Evacuate immediately in the container pressure relief devic Always stay away from tanks	kcal/kg with hose lines or monitor ompose polymer, and generate a if it can be done without risk. event of opening of storage ces or discoloration of container. engulfed in fire. of storage containers involved in
6. Accidental release measures		
6.1 Personal precautions, protectiv		-
Personal precautions	: Equip responders with proper Creates dangerous slipping h surface. Equip emergency responders equipment (PPE) Avoid generating dust.	•
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1	Version 1.3 Re	evision Date 11	/06/2019	Print Date 12	/23/2019	SDS No.: BE8102
			water. When bring	ng, always wash ing the material to	hands thoroughly v o processing tempe in the exhaust vent	eratures vapors
	Fire-fighting class	:	Polymer wil	l burn but does no	ot easily ignite.	
7.	.2 Conditions for safe	storage, inclu	iding any i	ncompatibilities		
	Requirements for st areas and container	rs	and handlin should be u Store away oxidizing ag Keep conta	ousekeeping prac g. Process enclos ised to avoid exce from excessive h gents. iner closed to pre	ctices during storages sures and adequate essive dust accumu eat and away from vent contamination e build up of electr	e ventilation Jation. strong
7.	.3 Specific end use(s)					
		:	See Sectior	ו 1.2.		
	. Exposure controls/po .1 Control parameters Ingredients with w Occupational Expo	s vorkplace contr		eters		
	Components	CAS-No.	Туре	Limit Value	Basis	Additional
		0,10110.			Revision Date	Information
	Materials that can		TWA	10 mg/m3 inbalable	US (ACGIH) 2005	

handling this product: Non- specified (inert or		Innalable	2005	
nuisance) dust				
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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				

Consult local authorities for acceptable exposure limits.

### 8.2 Exposure controls

### Engineering measures

Follow the recommendations in international standard 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. 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.	
Skin and body protection	: Wear suitable protective clothing.	
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Hygiene measures	be based on an evaluation of of the protective equipment re performed, conditions present hazards and/or potential haza during use. Use good personal hygiene p	t, duration of use, and the ards that may be encountered practices. rinking, smoking, or using toilet		
Environmental exposure cor	ntrols			
General advice	: See section 6.			
9. Physical and chemical propert 9.1 Information on basic physical				
Appearance	: Pellets.			
Color	: Black			
Odor	: Slight.			
Flash point	: No Data Available.			
Lower explosion limit	: The minimum explosive conc varies according to particle si	entration (MEC) for polymer dust ze distribution.		
Upper explosion limit	: Not applicable.			
Flammability (solid, gas)	: Polymer will burn but does no	ot easily ignite.		
Oxidizing properties	: Not considered an oxidizing a	agent.		
Autoignition temperature	: > 300 °C			
Decomposition temperature	: not determined			
Melting point/range	: 50 - 170 °C			
Boiling point/boiling range	: Not applicable.			
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SAFETY DATA SHEET		lyondellbase
according to Regulation (EC)		1 1 111
Hifax TRC 221X/1 B		Gen. Variant: SDS_GB
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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.	
0. Stability and reactivity		
0.1 Reactivity		
No known reactivity hazard	ls.	
0.2 Chemical stability		
Stable under normal cond		
0.3 Possibility of hazardous	reactions	
0.3 Possibility of hazardous Hazardous reactions		
<ul><li>0.3 Possibility of hazardous Hazardous reactions</li><li>0.4 Conditions to avoid</li></ul>	reactions : Will not occur.	
0.3 Possibility of hazardous Hazardous reactions	reactions	zers, excessive heat, sparks or
<ul> <li>0.3 Possibility of hazardous Hazardous reactions</li> <li>10.4 Conditions to avoid</li> </ul>	<ul> <li>reactions</li> <li>: Will not occur.</li> <li>: Avoid contact with strong oxidi</li> </ul>	zers, excessive heat, sparks or
<ul> <li>0.3 Possibility of hazardous Hazardous reactions</li> <li>0.4 Conditions to avoid Conditions to avoid</li> </ul>	<ul> <li>reactions</li> <li>: Will not occur.</li> <li>: Avoid contact with strong oxidi</li> </ul>	
<ul> <li>10.3 Possibility of hazardous Hazardous reactions</li> <li>10.4 Conditions to avoid Conditions to avoid</li> <li>10.5 Incompatible materials</li> </ul>	<ul> <li>reactions</li> <li>Will not occur.</li> <li>Avoid contact with strong oxidi open flame.</li> <li>Material may be softened by set</li> </ul>	

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Hazardous decomposition products Thermal decomposition	<ul> <li>Not expected to decompose under normal conditions.</li> <li>Note: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.</li> </ul>
11. Toxicological information	
11.1 Information on toxicologica	al effects
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.
Respiratory or skin sensitization	: Not classified
Chronic toxicity	
Carcinogenicity	: Not classified
Germ cell mutagenicity	: Not classified
Reproductive toxicity	
Effects on fertility / Effects on or via lactation	: Not classified
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		23/2019 3D3 No BE0102			
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 Toxi					
	<ul> <li>The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</li> </ul>				
Aspiration hazard	: Not applicable.				
12. Ecological information					
12.1 Ecotoxicology Assessment					
Short-term (acute) aquatic hazard	: Not classified				
Long-term (chronic) aquatic hazard	: Not classified				
12.2 Persistence and degradability					
Biodegradability	: Not expected to be biodegrad	able.			
12.3 Bioaccumulative potential					
Bioaccumulation	: This material is not expected	to bioaccumulate.			
12.4 Mobility in soil					
Mobility	: no data available				
12.5 Results of PBT and vPvB assessment					
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Result	: This substance/mixture conta to be either persistent, bioacc very persistent and very bioac	cumulative and toxic (PBT) or			
12.6 Other adverse effects					
Environmental fate and pathways	: This material is not volatile and insoluble in water.				
12.7 Other information					
Additional ecological information	solubility of polymers.	minimal based on the low water duct. However, birds, fish and which may obstruct their			
13. Disposal considerations					
13.1 Waste treatment methods					
Product		or reclaimed in conformance with ns and in conformance with good			
14. Transport information					
Not regulated for transport					
15. Regulatory information					
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture					
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### **REACH Annex XIV**

None of the substances currently listed in Annex XIV of the REACH regulation 1907/2006/EC or in the SVHC Candidate List are known to be incorporated in this product in quantities >= 0.1 % w/w.

### **REACH Annex XVII**

None of the substances currently listed in Annex XIV of the REACH regulation 1907/2006/EC or in the SVHC Candidate List are known to be incorporated in this product in quantities >= 0.1 % w/w.

### **REACH - Candidate List of Substances of Very High Concern for Authorisation**

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).

### **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)

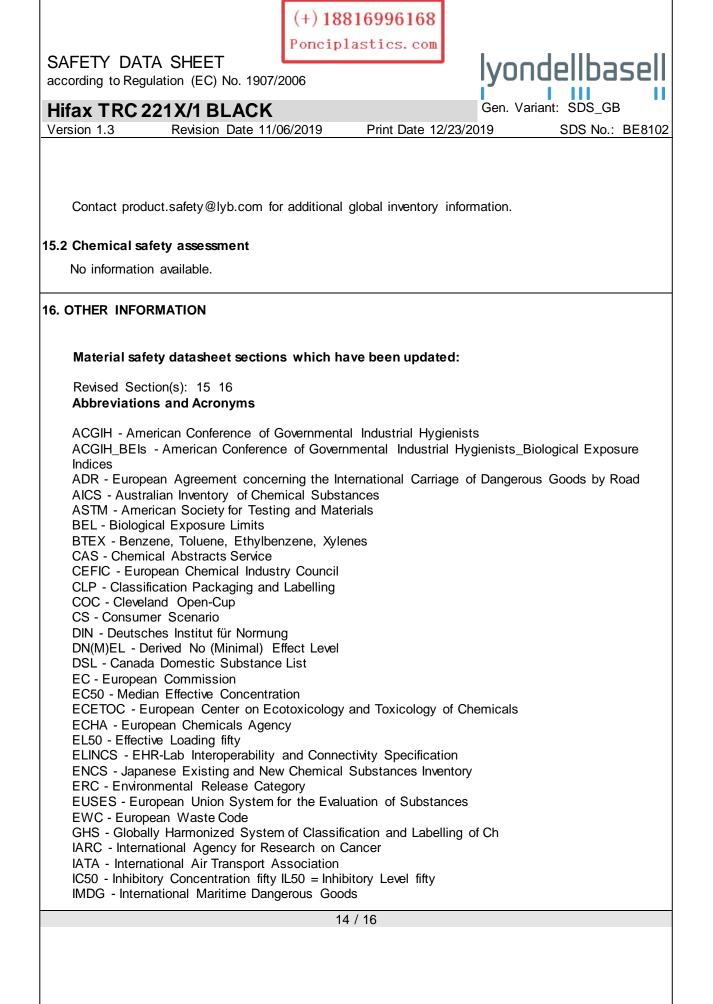
### Other international regulations

### **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





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**IECSC - Chinese Chemicals Inventory IOELV - Indicative Occupational Exposure Limit Values** IP346 - Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics **DMSO-extractables** KECI - Korea Existing Chemicals Inventory Koc - Organic Carbon/Water Partition Coefficient LC50 - Lethal Concentration fifty LD50 - Lethal Dose fifty per cent. LL/EL/IL - Lethal Loading/Effective Loading/Inhibitory Loading LL50 - Lethal Loading fifty MAK Commission - Permanent Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area MARPOL - International Convention for the Prevention of Pollution from Ships No. - Number NOEC/NOEL - No Observed Effect Concentration / No Observed Effect Level NZIoC - New Zealand Inventory of Chemicals OE\_HPV - Occupational Exposure - High Production Volume OECD - Organization for Economic Co-operation and Development **OEL - Occupational Exposure Limit** PBT - Persistent, Bio accumulative and Toxic PICCS - Philippine Inventory of Chemicals and Chemical Substances PNEC - Predicted No Effect Concentration PPE - Personal Protective Equipment **PROC - Process Category** QSAR - Quantitative Structure-Activity Relationship REACh - Registration Evaluation and Authorization of Chemicals RID - Regulations Relating to International Carriage of Dangerous Goods by Rail SDS - Safety Data Sheet SKIN\_DES - Skin Designation STEL - Short term exposure limit STP - Standard Temperature and Pressure TCSCA - Taiwan inventory of chemicals TGD - Technical Guidance Document TRA - Targeted Risk Assessment TSCA - US Toxic Substances Control Act TWA - Time-Weighted Average **UN - United Nations** vPvB - very Persistent and very Bioaccumulative WGK - German Water Endangerment Class

### Disclaimer

Multiple legal entities and registration numbers may be displayed in Section 1. The Recipient shall refer to the shipping documents to identify the legal entity that supplied this product.

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#### Disclaimer

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In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative or visit the LyondellBasell website at: https://www.lyondellbasell.com/en/products-technology/product-safety-stewardship/ The Trade Name referenced in section 1 is a trademark owned or used by the LyondellBasell family of companies.

### Numerical Data Presentation

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.

### 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