SAFETY DATA SHEET

Lotrène® Q TR-571

Lotrène® Q TF Version 1.6 Chem

Revision Date 2023-04-05

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product information

Product Name	:	Lotrène® Q TR-571
Material	:	1118593, 1118592, 1118591, 1118647, 1118646, 1118645,
		1118644, 1118608

EC-No.Registration number

Chemical name	CAS-No. EC-No.	Legal Entity Registration number
	Index No.	
Ethylene	74-85-1 200-815-3 601-010-00-3	Qatar Chemical Company LTD (Q-Chem) 01-2119462827-27-XXXX
1-Hexene	592-41-6 209-753-1	Qatar Chemical Company LTD (Q-Chem) 01-2119475505-34-XXXX

1.2

1.2	Relevant identified uses of th	e substance or mixture and uses advised against
	Relevant Identified Uses : Supported	Manufacture of plastics products
1.3	Details of the supplier of the	safety data sheet
	Company :	Qatar Chemical Company LTD (QChem) Amwal Tower, Omar Al Mukhtar St, Al-Dafna (Zone 61) PO Box 24646 Doha, Qatar
		SDS Requests: (+974) 4484-7110 Technical Information: (+974) 4476-7145 Responsible Party: Product Safety Group Email: MSDSInquiry@qchem.com.qa
	Local :	Muntajat B.V. (MBV OR) 19th Floor, Tower E, WTC The Hague Prinses Margrietplantsoen 78-A, 2595 BR The Hague, the Netherlands. Tel: +31702055630 Email: info.netherlands@muntajatbv.com
1.4	Emergency telephone:	
SDS	S Number:100000102478	1/13

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Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l)

MEDICAL APPLICATION CAUTION: Do not use this Qatar Chemical Company LTD material in medical applications involving permanent implantation in the human body or permanent contact with internal body fluids or tissues fluids or tissues.

Do not use this Qatar Chemical Company LTD material in medical applications involving brief or temporary implantation in the human body or contact with internal body fluids or tissues unless the material has been provided directly from Qatar Chemical Company LTD under an agreement which expressly acknowledges the contemplated use.

Qatar Chemical Company LTD makes no representation, promise, express warranty or implied warranty concerning the suitability of this material for use in implantation in the human body or in contact with internal body fluids or tissues.

SECTION 2: Hazards identification

2.1

Classification of the substance or mixture REGULATION (EC) No 1272/2008

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

2.2

Labeling (REGULATION (EC) No 1272/2008)

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

2.3

Other hazards Results of PBT and vPvB assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

SECTION 3: Composition/information on ingredients

3.1 ⋅ Sub	- 3.2 stance or Mixture						
	Hazardous ingredients						
	Chemical name	CAS-No.	Classification	C	Concentration	Specific Conc.	
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levels of 0.1% or higher.

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		EC-No. Index No.	(REGULATION (EC) No 1272/2008)	[wt%]	Limits, M-factors and ATEs
	Polyethylene Hexene Copolymer	25213-02-9		99 - 100	
	Contains no hazardous	ingredients acc	cording to GHS. :	1	
EC	CTION 4: First aid meas	ures			
.1	Description of first-aid	l measures			
	If inhaled	fume	e to fresh air in case of a es from overheating or co a physician.		
	In case of skin contact	imm	e molten material gets on ediate medical attention. erial from the skin or use	Do not try to p	eel the solidified
	In case of eye contact		e case of contact with ey ater and seek medical ad		diately with plenty
	If swallowed	: Do n	ot induce vomiting without	ut medical advi	ice.
.2	Most important sympton Notes to physician	oms and effec	ts, both acute and dela	yed	
	Symptoms	: No d	lata available.		
.3	Risks Indication of any imme		lata available. I attention and special t	reatment nee	ded
	Treatment	: No d	lata available.		
EC	CTION 5: Firefighting m	easures			
	Flash point	: No d	lata available		
	Autoignition temperature	e : Nod	ata available		
1	Extinguishing media				
	Suitable extinguishing media	Foar fogg appli surfa crea extin	er. Water mist. Dry chen n. If possible, water shou ing nozzle since this is a ication of high velocity wa ace layer. Avoid the use te a dust cloud and the ris iguishing measures that a imstances and the surrou	uld be applied surface burnin ater will spread of straight stre sk of a dust ex are appropriate	as a spray from a g material. The the burning ams that may plosion. Use to local
.2	Special hazards arisin Specific hazards during fighting	fire : Risk	bstance or mixture s of ignition followed by fl psions can be caused by		
	nghung	evhi	Solono can be caused by		ion of dual, e.y. off

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			floors and ledges.
5.3	Advice for firefighters Special protective equipment for fire-fighters	:	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
	Further information	:	This material will burn although it is not easily ignited.
	Fire and explosion protection	:	Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
	Hazardous decomposition products	:	Normal combustion forms carbon dioxide, water vapor and may produce carbon monoxide, other hydrocarbons and hydrocarbon oxidation products (ketones, aldehydes, organic acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.
SEC	CTION 6: Accidental release r	me	asures
6.1	Personal precautions, prote	ecti	ve equipment and emergency procedures
6.2	Personal precautions	:	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
	Environmental precautions		
	Environmental precautions	:	Do not contaminate surface water. Prevent product from entering drains.
6.3	Methods and materials for o	on	stainment and cleaning up
	Methods for cleaning up	:	Clean up promptly by sweeping or vacuum.
~ .	Additional advice	:	Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
6.4	Reference to other sections	5	
	Reference to other sections	:	For personal protection see section 8. For disposal considerations see section 13.
SEC	CTION 7: Handling and storage	ge	
7.1	Precautions for safe handlin Handling	ng	
	Advice on safe handling	:	Use good housekeeping for safe handling of the product. Keep out of water sources and sewers. Spilled pellets may create a slipping hazard. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard,
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	n 1.6	Revision Date 2023-04-05 bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS should minimize exposure to thermal processing emissions.
	lvice on protection :	themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS
	lvice on protection :	
	ainst fire and explosion	Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
7.2 Co	onditions for safe storage, in	cluding any incompatibilities
Sto	orage	
	equirements for storage : eas and containers	Keep in a dry place. Keep in a well-ventilated place.
Ad	lvice on common storage :	Do not store together with oxidizing and self-igniting products.
Ge	erman storage class :	Combustible Solids
7.3 Sp Us	ecific End Use	Manufacture of plastics products
SECTIC	ON 8: Exposure controls/per	sonal protection
	posure controls ngineering measures	
act per exp rec	tivities, and other substances rsonal protective equipment. posure to harmful levels of this commended. The user should	of this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecting lf engineering controls or work practices are not adequate to prevent is material, the personal protective equipment listed below is I read and understand all instructions and limitations supplied with is usually provided for a limited time or under certain circumstances.
Pe	ersonal protective equipmen	t
Re	espiratory protection :	No respiratory protection is normally required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
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	(Dust safety masks are recommended when the dust concentration is excessive.
Eye protection	(Use of safety glasses with side shields for solid handling is good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles.
Skin and body protection		At ambient temperatures use of clean and protective clothing is good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate.
CTION 9: Physical and cher	nical p	properties
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold	: : :	Pellets solid Opaque Mild to no odor No data available
Safety data		
Flash point	:	No data available
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Autoignition temperature	:	No data available
Autoignition temperature Thermal decomposition		No data available Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
	:	Low molecular weight hydrocarbons, alcohols, aldehydes,
Thermal decomposition	:	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
Thermal decomposition	:	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing. Not applicable
Thermal decomposition pH Melting point/range Freezing point Initial boiling point and boilin	:	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing. Not applicable 90-140°C (194-284°F) Not applicable
Thermal decomposition pH Melting point/range Freezing point	: : 19 :	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing. Not applicable 90-140°C (194-284°F) Not applicable
Thermal decomposition pH Melting point/range Freezing point Initial boiling point and boilin range	: : : :	Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing. Not applicable Not applicable Not applicable

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		detailed information relating to the nominal physical properties, including density, of this polyethylene resin grade.
١	Water solubility	: negligible
	Partition coefficient: n-	: No data available
	octanol/water Solubility in other solvents	: No data available
Ņ	Viscosity, dynamic	: Not applicable
Ņ	Viscosity, kinematic	: Not applicable
I	Relative vapor density	: Not applicable
ł	Evaporation rate	: Not applicable
	Other information Conductivity	: No data available
SEC	FION 10: Stability and reacti	/ity
10.1		
I	Reactivity	: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.2		
	Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3		
	Possibility of hazardous rea	ctions
10.4		
	Conditions to avoid	: Avoid prolonged storage at elevated temperature.
(10.5	Conditions to avoid Materials to avoid	Avoid prolonged storage at elevated temperature.Avoid contact with strong oxidizing agents.
10.5 I		
10.5 10.6	Materials to avoid	Avoid contact with strong oxidizing agents.Low molecular weight hydrocarbons, alcohols, aldehydes,

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Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological infor	mation
1.1 Information on toxicologica	effects
Lotrène® Q TR-571 Acute oral toxicity	: Presumed Not Toxic
Lotrène® Q TR-571 Acute inhalation toxicity	: Presumed Not Toxic
Lotrène® Q TR-571 Acute dermal toxicity	: Presumed Not Toxic
Lotrène® Q TR-571 Skin irritation	: No skin irritation
Lotrène® Q TR-571 Eye irritation	: No eye irritation
Lotrène® Q TR-571 Sensitization	: Did not cause sensitization on laboratory animals.
Toxicology Assessment	
Lotrène® Q TR-571 Specific Target Organ Toxicity (Single Exposure)	: Remarks: No adverse effects expected
Lotrène® Q TR-571 Specific Target Organ Toxicity (Repeated Exposure)	: Remarks: No adverse effects expected
Lotrène® Q TR-571 CMR effects	 Carcinogenicity: No adverse effects expected Mutagenicity: No adverse effects expected Reproductive toxicity: No adverse effects expected
1.2 Information on other hazard	S
Lotrène [®] Q TR-571 Further information	: This product contains POLYMERIZED OLEFINS. During thermal processing (>350°F, >177°C) polyolefins can release vapors and gases (aldehydes,ketones and organic acids) which are irritating to the mucous membranes of the eyes,
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	mouth, throat, and lungs. Generally these irritant effects are all transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a carcinogen based on animal data and limited epidemiological evidence.
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
SECTION 12: Ecological informat	tion
12.1 Toxicity	
Ecotoxicity effects	
Toxicity to fish	: Not a hazardous substance or mixture.
12.2 Persistence and degradabili	ty
Biodegradability	: This material is not expected to be readily biodegradable.
12.3 Bioaccumulative potential Elimination information (persis	tence and degradability)
Bioaccumulation	: Does not bioaccumulate.
12.4 Mobility in soil	
Mobility	: The product is insoluble and floats on water.
12.5 Results of PBT and vPvB as	sossmant
Results of PBT assessment	 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting proper	rties
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	

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Additional ecological information	: This material is not expected to be harmful to aquatic organisms., Fish or birds may eat pellets which may obstruct their digestive tracts.
12.8 Additional Information	
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.

SECTION 13: Disposal considerations

13.1

Waste treatment methods

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14: Transport information

14.1 - 14.7

Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

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NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR	
TRANSPORTATION BY THIS AGENCY.	

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF

NOT REGULATED AS A HAZA	DANGEROUS GOODS (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.					
ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.						
Maritime transport in bulk according to IMO instruments SECTION 15: Regulatory information						
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation						
Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)						
Water hazard class : r (Germany)	nwg not water endangering					
15.2						
Major Accident Hazard: 96/82/ECUpdate: 2003LegislationDirective 96/82/EC does not apply						
Notification status Europe REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.					
Switzerland CH INV	: On or in compliance with the active portion of the TSCA inventory					
United States of America (USA) TSCA	: On the inventory, or in compliance with the inventory					
Canada DSL	: All components of this product are on the Canadian DSL					
Other AICS	: On the inventory, or in compliance with the inventory					
New Zealand NZIoC	: On the inventory, or in compliance with the inventory					
Japan ENCS Korea KECI	 On the inventory, or in compliance with the inventory A substance(s) in this product was not registered, notified to be registered, or exempted from registration by QChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported 					
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0.1.1.0			ceed the minimum threshold egistered substance(s).
Philippines Pl China IECSC Faiwan TCSI	CCS : On the : On the	inventory, or inventory, or	in compliance with the inventory in compliance with the inventory in compliance with the inventory
ION 16: Othe	er information		
NFPA Classifi	ication : Health Hazard: Fire Hazard: 1 Reactivity Haza		
Further inform	nation		
	on in this SDS pertains only to the p	product as shi	pped.
nformation an guidance for sa not to be consi specific materi other materials Ke ACGIH AIIC	on provided in this Safety Data She id belief at the date of its publication afe handling, use, processing, stor- idered a warranty or quality specific ial designated and may not be valid s or in any process, unless specifie ey or legend to abbreviations and a American Conference of Government Industrial Hygienists Australian Inventory of Industrial Chemicals Canada Domestic Substances	n. The informa age, transpor cation. The in d for such mai d in the text. <u>cronyms used</u> LD50 LOAEL	ation given is designed only as a tation, disposal and release and is formation relates only to the terial used in combination with any d in the safety data sheet Lethal Dose 50% Lowest Observed Adverse Effect Level
nformation an guidance for sa not to be consi specific materi other materials Ke ACGIH AIIC DSL	d belief at the date of its publication afe handling, use, processing, stor idered a warranty or quality specific ial designated and may not be valid s or in any process, unless specifie ey or legend to abbreviations and a American Conference of Government Industrial Hygienists Australian Inventory of Industrial Chemicals Canada, Domestic Substances List	n. The informa age, transpor cation. The in d for such mai d in the text. cronyms used LD50 LOAEL NFPA	ation given is designed only as a tation, disposal and release and is formation relates only to the terial used in combination with any d in the safety data sheet d in the safety data sheet Lethal Dose 50% Lowest Observed Adverse Effect Level National Fire Protection Agency
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SAFETY DATA SHEET

Version 1.6

Revision Date 2023-04-05

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	on Cancer		
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate