

Marlex® TRB-437LS Polyethylene

Version 1.5

Revision Date 2024-10-24

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

SECT	TON 1: Identification of the	su	bstance/mixture and of the company/undertaking
1.1			
P	Product information		
Ρ	Product Name	:	Marlex® TRB-437LS Polyethylene
1.3			
	Details of the supplier of the	e sa	afety data sheet
C	Company	:	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
L	ocal	:	Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium
			SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com
1.4			
E	Emergency telephone:		
	Mexico CHEMTREC 01-80 South America SOS-Cotec Argentina: +(54)-11598394 EUROPE: BIG +32.14.584 Austria: VIZ +43 1 406 43 4	nal 2 9 90-6 101 131 54) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 581-9531 (24 hours) side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 5 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week)
SDS N	Number:100000102885		1/12

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Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO - Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 - ask for Poisons Information Responsible Department : Product Safety and Toxicology Group E-mail address SDS@CPChem.com 2 Website www.CPChem.com MEDICAL APPLICATION CAUTION: Do not use this 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 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 Chevron Phillips Chemical Company LP or its legal affiliates under an agreement which expressly acknowledges the contemplated use. Chevron Phillips Chemical Company LP and its legal affiliates 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. SDS Number:100000102885 2/12

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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.

SECTION 3: Composition/information on ingredients

3.1 **-** 3.2

Substance or Mixture

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
Polyethylene Hexene Copolymer	25213-02-9		99 - 100	
Contains no hazardous	ingredients acco	ording to GHS. :		

SECTION 4: First aid measures

4.1

Description of first-aid measures

If inhaled	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	: If the molten material gets on skin, quickly cool in water. Seek immediate medical attention. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	: Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measu	ures			
Flash point	:	No data available		
Autoignition temperature	:	No data available		
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6.3

Methods for cleaning up

Additional advice

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5.1	Extinguishing media	
	Suitable extinguishing : media	Water. Water mist. Dry chemical. Carbon dioxide (CO2). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Avoid the use of straight streams that may create a dust cloud and the risk of a dust explosion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2		
	Special hazards arising from Specific hazards during fire : fighting	
5.3		
	Advice for firefightersSpecial 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 me	easures
6.1	Personal precautions, protec	ive equipment and emergency procedures
6.2	Personal precautions :	Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.
U. Z	Environmental precautions	

Environmental precautions : Do not contaminate surface water. Prevent product from

: Clean up promptly by sweeping or vacuum.

: 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

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entering drains.

compressed air).

Methods and materials for containment and cleaning up

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6.4

Reference to other sections

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	Reference to other sections	
SEC	CTION 7: Handling and storage	8
7.1		
7.1	Precautions for safe handling Handling	9
	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, 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.
	Advice on protection against 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	Conditions for safe storage,	including any incompatibilities
	Storage	
	Requirements for storage areas and containers	: Keep in a dry place. Keep in a well-ventilated place.
	Advice on common storage	: Do not store together with oxidizing and self-igniting products.
SEC	CTION 8: Exposure controls/po	ersonal protection
8.2	Exposure controls Engineering measures	
8.2	Engineering measures Consider the potential hazards activities, and other substances personal protective equipment. exposure to harmful levels of the recommended. The user should the equipment since protection	. If engineering controls or work practices are not adequate to preven his material, the personal protective equipment listed below is and read and understand all instructions and limitations supplied with is usually provided for a limited time or under certain circumstances
8.2	Engineering measures Consider the potential hazards activities, and other substances personal protective equipment. exposure to harmful levels of the recommended. The user should	s in the work place when designing engineering controls and selectin . If engineering controls or work practices are not adequate to prever his material, the personal protective equipment listed below is ild read and understand all instructions and limitations supplied with is usually provided for a limited time or under certain circumstances.

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Respiratory 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. 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.	
ECTION 9: Physical and cher	nical properties	
_	· ·	
1 Information on basic phys	ical and chemical properties	
Appearance	• •	
Form	: Pellets	
Physical state	: solid	
Color	: Opaque	
Odor Odor Threshold	: Mild to no odor	
	· No data available	
	: No data available	
Safety data	: No data available	
	No data availableNo data available	
Safety data		
Safety data Flash point	: No data available	
Safety data Flash point Lower explosion limit	: No data available : Not applicable	
Safety data Flash point Lower explosion limit Upper explosion limit	 No data available Not applicable Not applicable 	
Safety data Flash point Lower explosion limit Upper explosion limit Autoignition temperature	 No data available Not applicable Not applicable No data available Low molecular weight hydrocarbons, alcohols, aldehydes, 	
Safety data Flash point Lower explosion limit Upper explosion limit Autoignition temperature Thermal decomposition	 No data available Not applicable Not applicable No data available Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing. 	
Safety data Flash point Lower explosion limit Upper explosion limit Autoignition temperature Thermal decomposition	 No data available Not applicable Not applicable No data available Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing. Not applicable 	

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Initial boiling point and boiling range	:	Not applicable
Vapor pressure	:	Not applicable
Relative density	:	Not applicable
Density	:	0,91 - 0,97 g/cm3 Please refer to the Technical Data Sheet (TDS) for more detailed information relating to the nominal physical properties, including density, of this polyethylene resin grade.
Water solubility	:	negligible
Partition coefficient: n- octanol/water	:	No data available
Solubility in other solvents	:	No data available
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Relative vapor density	:	Not applicable
Evaporation rate	:	Not applicable

SECTION 10: Stability and reactivity

10.1

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 reac	tions
10.4 Conditions to avoid	: Avoid prolonged storage at elevated temperature.
10.5	
Materials to avoid	: Avoid contact with strong oxidizing agents.
Thermal decomposition	: Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.
10.6	
Hazardous decomposition	: Normal combustion forms carbon dioxide, water vapor and
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Marlex® TRB-437LS Po	
Version 1.5 products	Revision Date 2024-10-24 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.
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological info	rmation
11.1	
Information on toxicologica	al effects
Marlex® TRB-437LS Polyet Acute oral toxicity	
Marlex® TRB-437LS Polyet Acute inhalation toxicity	
Marlex® TRB-437LS Polyet Acute dermal toxicity	
Marlex® TRB-437LS Polyet Skin irritation	hylene : No skin irritation
Marlex® TRB-437LS Polyet Eye irritation	hylene : No eye irritation
Marlex® TRB-437LS Polyet Sensitization	hylene : Did not cause sensitization on laboratory animals.
11.2 Information on other hazar	de
Marlex® TRB-437LS Polyet Further information	 hylene 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, 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	:
SECTION 12: Ecological inform	ation
12.1 Toxicity	

Version 1.5 Revision Date 2024-10-24 **Ecotoxicity effects** 12.2 Persistence and degradability Biodegradability : This material is not expected to be readily biodegradable. 12.3 **Bioaccumulative potential** Elimination information (persistence 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 assessment 12.6 Endocrine disrupting properties Endocrine disrupting : properties 12.7 Other adverse effects : This material is not expected to be harmful to aquatic Additional ecological information organisms., Fish or birds may eat pellets which may obstruct their digestive tracts. 12.8 **Additional Information Ecotoxicology Assessment 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).

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Goods Regulations for additional shippin etc.) Therefore, the information shown h	national mode-specific and quantity-specific Dangerous g description requirements (e.g., technical name or names, ere, may not always agree with the bill of lading shipping for the material may vary slightly between the SDS and the
US DOT (UNITED STATES DEPARTME NOT REGULATED AS A HAZARDOU TRANSPORTATION BY THIS AGEN	JS MATERIAL OR DANGEROUS GOODS FOR
IMO / IMDG (INTERNATIONAL MARITII NOT REGULATED AS A HAZARDOU TRANSPORTATION BY THIS AGEN	JS MATERIAL OR DANGEROUS GOODS FOR
IATA (INTERNATIONAL AIR TRANSPO NOT REGULATED AS A HAZARDOU TRANSPORTATION BY THIS AGEN	JS MATERIAL OR DANGEROUS GOODS FOR
ADR (AGREEMENT ON DANGEROUS NOT REGULATED AS A HAZARDOU TRANSPORTATION BY THIS AGEN	JS MATERIAL OR DANGEROUS GOODS FOR
RID (REGULATIONS CONCERNING TH DANGEROUS GOODS (EUROPE)) NOT REGULATED AS A HAZARDOU TRANSPORTATION BY THIS AGEN	JS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS BY INLAND	JS MATERIAL ÓR DANGEROUS GOODS FOR
Maritime transport in bulk according t	o IMO instruments
SECTION 15: Regulatory information	
15.1 Safety, health and environmental regu National legislation	lations/legislation specific for the substance or mixture
	of 18 June 2020 amending Regulation (EC) No 1907/2006 of ncil on the Registration, Evaluation, Authorisation and
Water hazard class : nwg (Germany)	not water endangering
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15.2

Major Accident Hazard Legislation	: 96/82/EC Update: 2003 Directive 96/82/EC does not apply
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI	 Not in compliance with the inventory Not in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 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 CPChem 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 amount does not exceed the minimum threshold quantity of the non-registered substance(s).
Philippines PICCS Taiwan TCSI China IECSC	On the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory
SECTION 16: Other information	
	Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0
	Fire Hazard: 1 Reactivity Hazard: 0
NFPA Classification :	Fire Hazard: 1 Reactivity Hazard: 0
NFPA Classification : Further information Significant changes since the la previous versions.	Fire Hazard: 1 Reactivity Hazard: 0
NFPA Classification : Further information Significant changes since the la previous versions. The information in this SDS per The information provided in this information and belief at the dat guidance for safe handling, use not to be considered a warranty	Fire Hazard: 1 Reactivity Hazard: 0 t version are highlighted in the margin. This version replaces all ains only to the product as shipped. Safety Data Sheet is correct to the best of our knowledge, e of its publication. The information given is designed only as a processing, storage, transportation, disposal and release and is or quality specification. The information relates only to the may not be valid for such material used in combination with any
NFPA Classification : Further information Significant changes since the la previous versions. The information in this SDS per The information provided in this information and belief at the dat guidance for safe handling, use not to be considered a warranty specific material designated and other materials or in any proces	Fire Hazard: 1 Reactivity Hazard: 0 t version are highlighted in the margin. This version replaces all ains only to the product as shipped. Safety Data Sheet is correct to the best of our knowledge, e of its publication. The information given is designed only as a processing, storage, transportation, disposal and release and is or quality specification. The information relates only to the may not be valid for such material used in combination with any
NFPA Classification : Further information Significant changes since the la previous versions. The information in this SDS per The information provided in this information and belief at the dat guidance for safe handling, use not to be considered a warranty specific material designated and other materials or in any proces	Fire Hazard: 1 Reactivity Hazard: 0

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			10010000 Date 2024 10 2
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
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