

Version 1.3 Revision Date 2012-10-05

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

Product information

Trade name : Marlex® HHM TR-144 Polyethylene

Material : 1110604, 1110603, 1110602, 1110601, 1110600, 1110599,

1110598, 1110597, 1110596

EC-No.Registration number

Chemical Name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Ethylene	74-85-1 200-815-3 601-010-00-3	Saudi Polymers Company 01-2119462827-27-0003
1-Hexene	592-41-6 209-753-1	Saudi Polymers Company 01-2119475505-34-0004

Company : Saudi Polymers Company

P.O. Box 11221 Jubail Industrial City Saudi Arabia 31961

MSDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:msds@cpchem.com

Local : Chevron Phillips Chemicals International N.V.

Brusselsesteenweg 355

B-3090 Overijse

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MSDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:msds@cpchem.com

Emergency telephone:

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866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887 Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090

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Responsible Department : Product Safety and Toxicology Group

E-mail address : MSDS@CPChem.com Website : www.CPChem.com

MEDICAL APPLICATION CAUTION: Do not use this Saudi Polymers Company 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 Saudi Polymers Company 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 Saudi Polymers Company under an agreement which expressly acknowledges the contemplated use.

Saudi Polymers Company 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

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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

Classification (67/548/EEC, 1999/45/EC)

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labeled. Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Label elements

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

Mixtures

Hazardous ingredients

Chemical Name	CAS-No. EC-No. Index No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	
Polyethylene Hexene Copolymer	25213-02-9			99 - 100	
Contains no hazardous ingredients according to GHS.:					

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SECTION 4: 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.

SECTION 5: Firefighting measures

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. Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Specific hazards during fire

fighting

Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on

floors and ledges.

Special protective

equipment for fire-fighters

Use personal protective equipment. Wear self contained

breathing apparatus for fire fighting 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.

SECTION 6: Accidental release measures

Personal precautions : Sweep up to prevent slipping hazard. Avoid breathing dust.

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

entering drains.

Methods for cleaning up : Clean up promptly by sweeping or vacuum.

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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).

SECTION 7: Handling and storage

Handling

Advice on safe handling

Use good housekeeping for safe handling of the product. Keep out of water sources and sewers.

Spilled pellets and powders 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, NTP, IARC (2A), and OSHA have listed formaldehyde as a probable human carcinogen. Following all recommendations within this MSDS 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.

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.

SECTION 8: Exposure controls/personal protection

Personal protective equipment

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. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled

release, exposure levels are not known, or other circumstances

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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.

Protective measures : Consider the potential hazards of this material (see Section 2),

applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : Pellets
Physical state : Solid
Color : Opaque
Odor : Mild to no odor

Safety data

Melting point/range : 90 - 140 °C (194 - 284 °F)

Density : 0,91 - 0,97 g/cm3

Water solubility : Negligible

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

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Conditions to avoid : Avoid prolonged storage at elevated temperature.

Materials to avoid : Avoid contact with strong oxidizing agents.

: Low molecular weight hydrocarbons, alcohols, aldehydes, Thermal decomposition

acids and ketones can be formed during thermal processing.

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Marlex® HHM TR-144 Polyethylene

Acute oral toxicity : Presumed Not Toxic

Marlex® HHM TR-144 Polyethylene

Acute inhalation toxicity : Presumed Not Toxic

Marlex® HHM TR-144 Polyethylene

: Presumed Not Toxic Acute dermal toxicity

Marlex® HHM TR-144 Polyethylene

Skin irritation : No skin irritation

Marlex® HHM TR-144 Polyethylene

Eye irritation : No eye irritation

Marlex® HHM TR-144 Polyethylene

Sensitization : Did not cause sensitization on laboratory animals.

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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, 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 probable human

carcinogen by NTP, IARC (2A), and OSHA based on animal

data and limited epidemiological evidence.

SECTION 12: Ecological information

Ecotoxicity effects

Elimination information (persistence and degradability)

Bioaccumulation : Does not bioaccumulate.

Mobility : The product is insoluble and floats on water.

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Biodegradability : This material is not expected to be readily biodegradable.

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.

SECTION 13: Disposal considerations

The information in this MSDS 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

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 MSDS 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))

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

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

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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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

Major Accident Hazard: 96/82/ECUpdate: 2003LegislationDirective 96/82/EC does not apply

Water contaminating class : nwg not water endangering

(Germany)

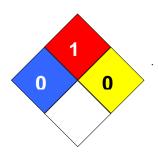
Notification status

Europe REACH : On the inventory, or in compliance with the inventory United States of America US.TSCA On the inventory, or in compliance with the inventory Canada DSL : On the inventory, or in compliance with the inventory Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory : On the inventory, or in compliance with the inventory Japan ENCS Korea KECI : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



Further information

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Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%		
AICS	Australia, Inventory of Chemical Substances	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%				