

Version 1.5 Revision Date 2019-10-15

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

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

1.1

Product information

Product Name : Marlex® 9512H Polyethylene

Material : 1121414, 1121413, 1121379, 1038691, 1038683, 1040906,

1040907, 1038681, 1038707, 1038705, 1039148, 1038699,

1039147, 1038689, 1038697

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 | Chevron Phillips Chemical Company LP 01-2119462827-27-0004 |
| 1-Hexene | 592-41-6 209-753-1 | Chevron Phillips Chemical Company LP 01-2119475505-34-0005 |

1.3

Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

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

Email:sds@cpchem.com

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Emergency telephone:

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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)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com 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.

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%] | | |
|---|--------------------------------|---|------------------------|--|--|
| Polyethylene Hexene Copolymer | 25213-02-9 | | 99 - 100 | | |
| Contains no hazardous ingredients according to GHS. : | | | | | |

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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.

SECTION 5: Firefighting measures

Flash point : No data available

Autoignition temperature : No data available

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 the substance or mixture

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.

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 : Normal combustion forms carbon dioxide, water vapor and may

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products 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

6.1

Personal precautions, protective equipment and emergency procedures

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

Avoid dust formation.

6.2

Environmental precautions

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

entering drains.

6.3

Methods and materials for containment 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

SECTION 7: Handling and storage

7.1

Precautions for safe handling 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, 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

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hazard.

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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.

SECTION 8: Exposure controls/personal protection

8.2

Exposure controls Engineering 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.

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 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 fo

: 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.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

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

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

acids and ketones can be formed during thermal processing.

pΗ : Not applicable

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

Freezing point Not applicable

Initial boiling point and boiling : Not applicable

range

: Not applicable Vapor pressure

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

: Not applicable Evaporation rate

SECTION 10: Stability and reactivity

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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 reactions

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

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.

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

SECTION 11: Toxicological information

11.1

Information on toxicological effects

Marlex® 9512H Polyethylene

Acute oral toxicity : Presumed Not Toxic

Marlex® 9512H Polyethylene

Acute inhalation toxicity : Presumed Not Toxic

Marlex® 9512H Polyethylene

Acute dermal toxicity : Presumed Not Toxic

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Skin irritation : No skin irritation

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Eye irritation : No eye irritation

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Sensitization : Did not cause sensitization on laboratory animals.

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Further information : This product contains POLYMERIZED OLEFINS. During

limited epidemiological evidence.

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

SECTION 12: Ecological information

12.1

Toxicity

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

Other adverse effects

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.

Ecotoxicology Assessment

SECTION 13: Disposal considerations

13.1

Waste treatment methods

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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))

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

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF 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.

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

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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 contaminating class : nwg not water endangering

(Germany)

15.2

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

Notification status

Europe REACH : On the inventory, or in compliance with the inventory Switzerland CH INV : On the inventory, or in compliance with the inventory United States of America (USA) : On or in compliance with the active portion of the

TSCA TSCA inventory

Canada DSL : All components of this product are on the Canadian

DSL

Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory Japan ENCS : On the inventory, or in compliance with the inventory Korea KECI : 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

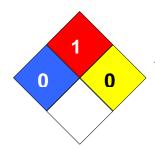
themselves notified the substance.

Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory Taiwan TCSI : 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

Legacy SDS Number : 240370

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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 SDS pertains only to the product as shipped.

The information provided in this 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% | | | |

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