Product Regulatory Overview (PRO)  
Marlex® HXM 50100 Polyethylene

Product Manufacturer
Chevron Phillips Chemical Company LP
Saudi Polymers Company (SPCo)

Chemical Inventories
All the components of this product are listed on
AUSTRALIA: Australian Inventory of Chemical Substances (AICS)
CANADA: Domestic Substances List (DSL)
PEOPLE’S REPUBLIC OF CHINA: Inventory of Existing Chemical Substances
EUROPEAN UNION: All necessary components have been registered according to Regulation (EU) No. 1907/2006 (REACH)
SWITZERLAND: Exemptions from the obligation to notify/register
JAPAN: Existing & New Chemical Substances (ENCS) Inventory
KOREA: Existing Chemicals List (ECL)
NEW ZEALAND: Inventory of Chemical Substances (NZIoCS)
PHILIPPINES: Philippine Inventory of Chemicals and Chemical Substances (PICCS)
UNITED STATES: Toxic Substances Control Act (TSCA) Chemical Inventory.

Food Contact
European Union (EU) Food Contact
The monomer(s) and the additive(s) of this resin are listed in Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food and all its Amendments up to and including Commission Regulation (EU) 2016/1416.

This product was tested for overall migration compliance, as well as tested and calculated for specific migration compliance per Commission Regulation (EU) No 10/2011. The tested sample thickness was 3.175 mm (125 mils). The surface-to-volume ratio was 1 dm² sample to 1dl simulant.

For measuring the overall migration level, this product was tested with 3% acetic acid for 10 days at 40°C, with 10% ethanol for 10 days at 40°C, and with olive oil for 10 days at 40°C. The overall migration levels are all lower than 1.0 mg/dm², and meet the overall migration limit (OML) of 10 mg/dm².

For measuring the specific migration level, this product was tested with isooctane for 10 days at 20°C. With food simulants of 3% acetic acid for 10 days at 60°C, with 10% ethanol for 10 days at 60°C, and with olive oil for 10 days at 60°C, the specific migration levels were expected to be lower than the measured levels in isooctane for 10 days at 20°C. This product met the specific migration limits (SML).

This product does not contain dual use additives per EU Directive No 95/2/EC that would be a concern in food.

This product meets the requirements of Framework Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food.
This product is produced in accordance with good manufacturing practice (GMP) as outlined in GMP Regulation (EC) No 2023/2006.

**Germany BfR Recommendations**
This product meets the requirements on catalyst residues and residual decomposition products in German BfR Recommendations on Food Contact Materials III Polyethylene.

**U.S. FDA Food Contact**
This product meets the requirements for polyolefin resins intended for food packaging applications as described in the FDA regulation 21 CFR 177.1520(c)3.2a. The resin may be used in contact with all types of foods as defined in Table 1, 21 CFR 176.170(c) and at use conditions B-H as defined in Table 2, 21 CFR 176.170(c).

This product is produced in accordance with good manufacturing practices (GMP) as outlined in 21 CFR 174.5.

**Canada Food Contact**
A “Letter of No Objection” for this product has been approved by Health Canada. This product may be used as a food-contact article such as bottle, food pail, cap, and casing under and at the temperature of 212 °F (100 °C).

**China Food Contact**
All additives of this resin are listed in GB 9685-2008 “Hygienic standards for uses of additives in food containers and packaging materials”, and meet the relevant specifications. There are no regulatory food type restrictions on this resin.

*It is the responsibility of the packaging converter or food packager to verify that the finished article meets both the technical and regulatory requirements of the intended application.*

**U.S. Pharmacopeia (USP)**
This product meets the standards set by the United States Pharmacopoeia USP 39 <87> Biological Reactivity Tests, in Vitro.
This product meets the standards set by the United States Pharmacopoeia USP 39 <661.1> Plastic Materials of Construction – Identification, Physicochemical, and Extractable Metals tests.

**European Pharmacopoeia (EUP)**
This product has not been tested under any EU Pharmacopoeia guidelines. This product contains a substance not listed in EU 3.1.13.

**Drug Master File (DMF)**
This product is listed in U.S. FDA Type III Drug Master File 1016.
This product is listed in Canadian Drug Master File 9389.

**Regulation 1223/2009 of 2009-11-30 on Cosmetic Products**
Regulation 1223/2009 is not applicable to this product. This product is not defined in the regulation as a cosmetic product, and it does not contain any substances listed as prohibited in cosmetic products.
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EU Classification and Labeling
This product is not a dangerous substance according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. It is also not a hazardous substance or mixture according to EC directives 67/548/EEC or 1999/45/EC.

California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)
This product, as shipped, does not contain any carcinogens or reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.

Consumer Product Safety Improvement Act of 2008 (H.R. 4040)
This product does not contain lead and phthalates. It therefore complies with the relevant sections of the Consumer Product Safety Improvement Act of 2008 (H.R. 4040).

Clean Air
This product does not contain any ozone depleting substances, including those listed in Regulation (EC) No 1005/2009.

This product does not contain any of the following substances regulated by the Clean Air Act:
- Class I or Class II Ozone-Depleting Substances (CAA Section 602)
- Hazardous Air Pollutants (CAA Section 112)
- Accidental Release Prevention Substances (CAA Section 112(r))
- Volatile Organic Chemicals (CAA Section 111)

Heavy metals, RoHS, WEEE, Waste packaging, CONEG
No heavy metals (i.e., antimony, arsenic, barium, cadmium, chromium, lead, mercury, selenium, or silver) are purposely added to this product in quantities that would violate governmental guidelines. The summation of lead, cadmium, mercury, and hexavalent chromium in this product is less than 20 ppm. No polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), Deca Brominated Diphenyl Ethers (Deca BDE), or phthalates are intentionally added to this product. This product therefore meets the relevant requirements of the following Directives or Regulations:
- 2015/863/EU, 2011/65/EU and 2002/95/EC (RoHS)
- 2002/96/EC and 2012/19/EU (WEEE)
- 2000/53/EC (ELV)
- USA CONEG Regulation / Model Toxics in Packaging Legislation
- California Toxics in Packaging Prevention Act

Toys
This product complies with the requirements of ASTM F963, EN 71-3, EN71-9, and EU Directive 2005/84/EC.

Phthalates
No phthalates, including di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), and di-n-octyl phthalate
(DnOP), are intentionally added to this product. This product therefore meets the requirements of the Consumer Product Safety Improvement Act of 2008 and EU Directive 2005/84/EC.

**European Chemicals Agency (ECHA) Substances of Concern**
This product does not contain any Substances of Very High Concern (SVHC) as listed on the candidate list published by ECHA as of 12 January 2017. It also does not contain any substances on the REACH Annex XVII Restriction Substance list.

**Canadian Environmental Protection Act (CEPA) “Challenge” Substances**
This product does not contain any high priority chemical substances listed on the “Challenge” Substance Batches as issued by CEPA.

**Nanomaterial**
This product is not a nanomaterial.

**Conflict Minerals**
Neither tantalum, tin, gold, and tungsten, nor the minerals associated with these metals (Columbite-Tantalite, Cassiterite, Gold, or Wolframite) are intentionally added to this product. These substances are not necessary to the production of this product.

**Absence of Substances and Chemicals**
None of the following substances are used as additives or raw materials in the manufacture of this product:

- Acrylamide
- Alkylphenol Ethoxylates, including nonylphenol ethoxylate and octylphenol ethoxylate
- Allergens, including but not limited to those listed in EU Regulation 1169/2011, Directives 2000/13/EC, 2003/89/EC, and Section B.01.010.1 (1) of Canadian Regulation C.R.C., c. 870 such as: peanuts, tree nuts, milk, eggs, wheat gluten, soybeans, fish and shellfish
- Aromatic amines
- Asbestos
- Azo compounds
- Biocides
- Bisphenol compounds, including but not limited to: BPA, BPB, BPC, BPE, BPF, BPS, and BPZ
- Brominated or halogenated flame retardants
- Butylated Hydroxytoluene (BHT) and Butylated Hydroxyanisole (BHA)
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC), hydrofluorocarbons (HFC)
- Chlorinated paraffins
- Colorants or pigments
- Cyanuric acid
- Di(ethylhexyl) adipate (DEHA), diethyl hydroxyl amine (DEHA), or di(ethylhexyl)maleate (DEHM)
- Dimethylfumarate (DMF)
- Dioxins or furans
- Endocrine disruptors
- Epoxy derivatives listed in EU Directives 2002/16/EC and 1895/2005
- Epoxidised Soybean Oil
- Formaldehyde
- Fungicides, preservatives or fumigants
- Genetically-modified organisms (GMO)
- Materials derived from plants
- Melamine
- Methyl bromide
- Natural rubber latex, dry natural rubber, or synthetic latex
- Nonyl phenol
- Organotin compounds
- Ozone-depleting chemicals
- Perfluorooctanoic acid (PFOA) or perfluorooctane sulfonate (PFOS)
- Pesticides and fungicides
- Photoinitiators, including: benzophenone, hydroxybenzophenone, and 4-methylbenzophenone, and Isopropylthioxanthone (ITX)
- Plasticizers
- Polyaromatic Hydrocarbons (PAHs)
- Polybrominated Diphenyl Ethers (PBDEs) included: decaBDE, octaBDE, and pentaBDE
- Polycarbonates
- Polychlorinated and Polybrominated Biphenyls (PCBs and PBBs)
- Polychlorinated and Polybrominated Terphenyls (PCTs and PBTs)
- Radioactive Substances
- Recycled materials
- Silicone
- Sulfonamides
- Triclosan (2,4,4’-trichloro-2’-hydroxydiphenylether)
- Tris-Nonylphenol Phosphate
- Vinyl Chloride Monomer (VCM) and Polyvinyl Chloride (PVC) or copolymers

It is the responsibility of the customer to check compliance of the final articles with the relevant legislative and applicable regulatory requirements including their restrictions.

Disclaimer: Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user’s specific application. Chevron Phillips Chemical Company LP and Saudi Polymers Company (SPCo), do not make, and expressly disclaim, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.
Additional information on the health and safety aspects of our product is listed in the SDS of the product.

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