

# Ipethene® 111

## Low Density Polyethylene

### General Statement on Compliance with Food Contact Regulations

#### Food contact – European Union

This product complies with the relevant requirements of Regulation 1935/2004/EC on materials and articles intended to come into contact with food, applicable to plastic raw materials.

This product complies with the relevant requirements of Regulation 2023/2006/EC on good manufacturing practice (GMP) for materials and articles intended to come into contact with food, applicable to plastic raw materials.

This product complies with the relevant requirements of Regulation 10/2011/EC (PIM) as amended, on plastic materials and articles intended to come into contact with food, applicable to plastic raw materials.

The monomers and additives used to manufacture this product are listed in the Union List of Authorized Substances of Regulation 10/2011/EC and subsequent amendments.

This product does not contain any additives. All other ingredients are not subject to any restriction, i.e. a specific migration limit (SML).

Regulation 10/2011/EC specifies 10 mg/dm<sup>2</sup> as the maximum overall migration from finished plastic food contact articles. The migration should be measured using the actual foodstuff or the appropriate food simulants at the real time/temperature conditions of use, according to the rules specified in Regulation 10/2011/EC and subsequent amendments. It is the responsibility of the manufacturer of the finished plastic food contact article to check and confirm that the final article meets both the technical and regulatory requirements of the application. In addition, we remind you that the manufacturers of the finished food contact material or article must verify that the finished material or article, manufactured



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according to good manufacturing practices, does not modify the organoleptic properties of the food.

#### Food contact – US Food and Drug Administration (FDA)

The base resin in this product meets the FDA requirements contained in the Code of Federal Regulations in 21 CFR 177.1520(a)(2)(i) and (c)2.2.

This product may contain adjuvant substances that may be safely used in polymers used for the manufacture of articles that come into direct contact with food. According to our information, these substances used in this product meet the requirements of their respective FDA regulations, FCNs, and 21 CFR 177.1520(b).

This product meets the FDA criteria in 21 CFR 177.1520 for food contact applications, including cooking, listed under conditions of use A through H in 21 CFR 176.170(c), Table<sup>(#)</sup> 2 and can be used in contact with all food types as listed in 21 CFR 176.170(c), Table<sup>(#)</sup> 1.

(#) These tables can be found on the FDA website:

<http://www.fda.gov/food/ingredientspackaginglabeling/packagingfcs/foodtypesconditionsofuse/ucm109358.htm>

#### **Disclaimer**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however, we do not assume any liability whatsoever for the accuracy and completeness of the above information. Carmel Olefins Ltd. makes no warranties which extend beyond the description contained herein. Any information given in this statement does not constitute any warranty of merchantability or fitness for a particular use. It is the customers' responsibility to inspect and to test our products in order to satisfy themselves as to the suitability of the products to their particular purpose. The customers are responsible for the appropriate, safe and legal use, processing and handling of our products. Carmel Olefins Ltd will not accept any liability with respect to the use of its products in conjunction with other materials. The information contained herein relates to our materials when not used in conjunction with any third party materials.



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# Capilene<sup>®</sup> Polypropylene

# Ipethene<sup>®</sup> Low Density Polyethylene

## Substances of Very High Concern (SVHC)

We hereby certify that these products do not contain any of the Annex XIV candidate chemicals proposed to be Substances of Very High Concern (List as of 27/06/2018) above the 0.1% threshold as stated in REACH (Article 57, Regulation No. 1907/2006).

The current list of all SVHCs can be found at the following link to the ECHA website:

<http://echa.europa.eu/web/guest/candidate-list-table>

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# Capilene® Polypropylene

# Ipethene® Low Density Polyethylene

## Compliance with REACH Regulation (EC) No 1907/2006

Carmel Olefins Ltd. has successfully registered the monomers related to its polypropylene resins commercialized under the name **Capilene®**, and to its polyethylene resins commercialized under the name **Ipethene®** in volumes > 1000 tons/year.

This was done by Carmel Olefins' Only-Representative (OR) Ducor Petrochemicals, with compliance with Regulation (EC) No. 1907/2006 concerning the **Registration, Evaluation, Authorization and the Restriction of Chemicals (REACH)** and subsequent amendments.

**Capilene® & Ipethene®** grades do not contain any of the substances listed in the Annex XVII (EC) No 1907/2006 (REACH).

**Capilene® & Ipethene®** grades do not contain any of the substances listed in REACH Annex XIV, Substance of **Very High Concern (SVHC)** candidate list, in a concentration above 0.1% (w/w).

The current list of all SVHCs can be found at the following link to the ECHA website:  
<http://echa.europa.eu/web/guest/candidate-list-table>

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# Capilene® Polypropylene

# Ipethene® Low Density Polyethylene

## General Statement on Chemical Absence

We confirm that during manufacturing of the above mentioned products, we do not intentionally use any of the chemical substances listed below. However, since the products haven't been tested for these substances, we cannot guarantee that there is no trace amount of them, as impurity or otherwise, in these products.

- \* acrylamide (CAS No 79-06-1)
- \* acrylaldehyde (ACROLEIN, CAS No 107-02-8)
- \* ALCOHOLS
  - ethyl alcohol (ethanol, CAS No 64-17-5)
  - butanol
  - 1,4-Butanediol (CAS No 110-63-4)
  - dichloro-propanediol (DCP, CAS No 82598-72-9)
- \* anthraquinone (CAS No 84-65-1)
- \* AROMATICS
  - 2-Phenylphenol (CAS No 110-80-5)
  - ALKYLPHENOL DERIVATIVES
    - dodecylphenol (CAS No 121158-58-5 )
    - nonylphenol and ethoxylates
    - octylphenol and ethoxylates
  - AROMATIC AMINES
    - 2-naphtylamine (CAS No 91-59-8)
    - Regulation 1907/2006/EC Annex XVII Appendix 8
  - benzene (CAS No 71-43-2)
  - BISPHENOL A (BPA)
    - 2,2-bis(4-hydroxyphenyl)propane (CAS No 80-05-7)
  - BISPHENOL F (CAS No 620-92-8)
  - BISPHENOL S (BPS)
    - 4,4'-Sulfonyldiphenol (CAS No 80-09-1)
  - CHLORINATED BENZENES
  - CHLORINATED PHENOLS
    - chlorophenol
    - dichlorophenol
    - pentachlorophenol (PCP)
    - tetrachlorophenol
    - trichlorophenol
    - Regulation 1907/2006/EC Annex XVII
  - CHLORINATED TOLUENES
    - n-butylbenzene (CAS No 104-51-8)
    - n-ethyl-o-toluenesulfonamide (CAS No 1077-56-1)
    - n-ethyl-o/p -toluenesulfonamide mixture (CAS No 8047-99-2)
    - n-ethyl-p-toluenesulfonamide (NEPTSA; CAS No 80-39-7)



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## POLYCYCLIC AROMATIC HYDROCARBONS (PAH)

1,2-dihydro-acenaphthene (CAS No 83-32-9)  
 1-methylnaphthalene (CAS No 90-12-0)  
 2-methylnaphthalene (CAS No 91-57-6)  
 acenaphthylene (CAS No 208-96-8)  
 anthracene (CAS No 120-12-7)  
 benz(a)anthracene (CAS No 56-55-3)  
 benzo(a)pyrene (CAS No 50-32-8)  
 benzo(b)fluoranthene (CAS No 205-99-2)  
 benzo(e)pyrene (CAS No 192-97-2)  
 benzo(ghi)perylene (CAS No 191-24-2)  
 benzo(j)fluoranthene (CAS No 205-82-3)  
 benzo(k)fluoranthene (CAS No 207-08-9)  
 chrysene (CAS No 218-01-9)  
 dibenz(a,h)anthracene (CAS No 53-70-3)  
 fluoranthene (CAS No 206-44-0)  
 fluorene (CAS No 86-73-7)  
 indeno(1,2,3-cd)pyrene (CAS No 193-39-5)  
 naphthalene (CAS No 91-20-3)  
 phenanthrene (CAS No 85-01-8)  
 pyrene (CAS No 129-00-0)

## PHENOLS

phenol (CAS No 108-95-2)  
 phenylenediamine  
 styrene (ethenylbenzene; CAS No 100-42-5)  
 toluene (CAS No 108-88-3)  
 xylene (CAS No 95-47-6, 108-38-3, 106-42-3)

## \* ASBESTOS

Regulation 1907/2006/EC Annex XVII

\* Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4- Trimethylpentene (BNST, CAS No 68921-45-9)

\* benzidine (CAS No 92-87-15)

## \* BIOCIDES

2-octylisothiazol-3(2H)-one (CAS No 26530-20-1)  
 2-(thiocyanomethylthio)-Benzothiazol (TCMTB, CAS No 21564-17-0)  
 2,4,4'-trichloro-2'-hydroxydiphenyl ether (TRICLOSAN, CAS No 3380-34-5)  
 4-chloro-3-Methylphenol (CMK, CAS no 59-50-7)  
 di-metyl fumarate (DMF, CAS No 624-49-7)  
 o-Phenylphenol (CAS No 90-43-7)  
 Regulation 528/2012/EC  
 Directive 1998/8/EC

\* butylated hydroxyanisole (BHA, CAS No 25013-16-5 and 121-00-6)

\* butylated hydroxytoluene (BHT, CAS No 128-37-0)

\* CALIFORNIA'S SAFE DRINKING WATER and TOXIC ENFORCEMENT ACT of 1986 (Proposition 65)  
 Ipethene® 113/213/322/323 grades contain a chemical substance (Silica, crystalline) that is known to the State of California to cause cancer when inhaled as an unbound respirable particulate. However, Ipethene® grades are supplied as pellets. Inhalation of respirable crystalline silica is not expected under reasonably foreseeable conditions of use.

\* CASEIN (CAS No 9000-71-9)



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- \* CHLORINATED ALIPHATIC COMPOUNDS
  - 1,1-dichloroethylene (CAS No 75-35-4)
  - 1,1,1-trichloroethane (CAS No 71-55-6)
  - 1,1,1,2-tetrachloroethane (CAS No 630-20-6)
  - 1,1,2-trichloroethane (CAS No 79-00-5)
  - 1,1,2,2-tetrachloroethane (CAS No 79-34-5)
  - pentachloroethane (CAS No 76-01-7)
  - tetrachloromethane (CAS No 56-23-5)
  - trichlorethylene (CAS No 79-01-06)
  - trichloromethane (chloroform; CAS No 67-66-3)
  - SHORT and MEDIUM CHAIN CHLORINATED PARAFFINS
- \* COALITION OF NORTHEASTERN GOVERNORS (CONEG)
  - This product meets the CONEG requirements of less than 100 ppm for total incidental Cadmium, Chromium (VI), Lead and Mercury.
- \* COLOPHONIUM / COLOPHONY (CAS No 8050-09-7)
- \* COLORANTS
  - DYES (UVITEX dye is used as optical brightner in few Capilene® resins)
  - AZO Dyes
  - PIGMENTS
  - INKS
- \* CONFLICT MINERALS
  - Dodd-Frank Wall Street Reform and Consumer Protection Act - September, 2010
  - Conflict minerals, which include columbite-tantalite (also known as coltan, source for tantalum), cassiterite (source for tin), gold, wolframite (source for tungsten) or their derivatives
- \* CYANIDES
  - cyanuric acid (CAS No 108-80-5)
- \* decabromodiphenylether (decaBDE)
- \* di(2-ethyl hexyl) maleate (DEHM; CAS No 142-16-5)
- \* di-butyl fumarate (DBF, CAS No 105-75-9)
- \* di-methyl-formamide (DMF, CAS No 68-12-2)
- \* dicyandiamide (DCD, CAS No 461-58-5)
- \* DIOXINS AND FURANS
  - polychlorinated dibenzo-p-dioxins (PCDDs or dioxins)
  - polychlorinated dibenzofurans (PCDFs or furans)
  - polychlorinated biphenyls (PCBs)
- \* epichlorohydrin (CAS No 106-89-8)
- \* EPOXIDIZED SOYA BEAN OIL (ESBO; CAS No 8013-07-8)
- \* EPOXY DERIVATIVES
  - Regulation 2005/1895/EC
  - bisphenol A diglycidyl ether (BADGE, CAS No 1675-54-3)
  - bisphenol F diglycidyl ether (BFDGE, CAS No 2095-03-6)
  - novolac glycidyl ethers (NOGE)
- \* ethyl hexanoic acid (EHA)
- \* FLAME RETARDANTS (FR)
  - BROMINATED FLAME RETARDANTS
    - 1,2,5,6,9,10-hexabromocyclodecane (HBCD, CAS No 3194-55-6)
    - polybrominated biphenyls (PBB; CAS No 59536-65-1)
    - polybrominated diphenyl ethers (PBDE)
    - polybrominated terphenyls (PBT)
    - pentabromodiphenyl ether (CAS No 32534-81-9)
    - octabromodiphenyl ether (CAS No 32536-52-0)
    - Directive 2002/96/EC (WEEE)



**CHLORINATED FR**

TCEP (CAS No 51805-45-9)

TCPP (CAS No 13674-84-5)

TDCP (CAS No 13674-87-8)

**\* FLUOROCARBONS**

fluoroteleners

Perfluorohexane sulfonic acid (CAS No 355-46-4)

perfluorooctane sulfonate (PFOS)

perfluorooctanoic acid (PFOA)

perfluorochemicals (PFC)

**\* FOOD ALLERGENS**

Regulation (EU) No 1169/2011, food ingredients listed in Annex II

peanuts, tree nuts (almonds, brazil nuts, chestnuts, filberts, hazelnuts, hickory nuts, macadamia nuts, pecans, pine nuts, pistachios, and walnuts), milk, eggs, soybeans, shellfish, crustaceans (e.g. shrimp, crabs, lobsters, oysters, clams, scallops, crayfish), molluscs (e.g. snails, clams, squid, octopi) or mollusc products, sulfites, food colors, celery or celery products, wheat (gluten) or wheat products, seeds (e.g. cotton, poppy, sesame, sunflower, mustard) or seed products, aspartame, monosodium glutamate (MSG), caffeine; hydrogenated vegetable protein (HVP); grains (e.g. rye, barley, oats), lupine or lupine products

**\* formaldehyde (formol; CAS No 50-00-0)****\* FRAGRANTS**

Butylphenyl methylpropional (Lilial), (CAS 80-54-6)

Cinnamal

Cinnamyl alcohol (CAS No 104-54-1)

Citral (CAS No 5392-40-5)

Coumarins (CAS No 91-64-5)

Eugenol (CAS No 97-53-0)

Geraniol (CAS No 106-24-1)

hydroxycitronellal (CAS No 107-75-5)

Hydroxymethylpentylcyclohexenecarboxaldehyde (Lylal, CAS No 31906-04-4)

Isoeugenol (CAS No 97-54-1)

Limonene

Linalool (CAS No 78-70-6)

Majantol

Musk compounds

Silvial (CAS No 6658-48-6)

Vetiver

**\* FUNGICIDES****\* GENETICALLY MODIFIED ORGANISM (GMO)****\* HALOGENS**

Elemental Fluorine, Chlorine, Bromine or Iodine

**\* HEAVY METALS and metallic impurities**

Antimony, Arsenic, Barium, Beryllium, Bismuth, Cadmium, Chromium, Cobalt, Copper, Gold, Iridium, Lead, Lithium, Mercury, Molybdenum, Nickel, Osmium, Palladium, Platinum, Selenium, Silver, Tantalum, Thallium, Tin, Tungsten, Vanadium, Rhodium, Ruthenium

**\* hexachlorobenzene (HCB, CAS No 118-74-1)****\* HUMAN BODY DERIVATIVES****\* HYDRAZINE DERIVATIVES****\* INSECTICIDES**

Endrin

Mirex

Aldrin

toxaphene (Cas No 8001-35-2)

dichlorodiphenyltrichloroethane (DDT, CAS No 50-29-3)

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- \* Isocyanates
  - hexamethylene diisocyanate (HDI, CAS No 822-06-0)
  - isophorone diisocyanate (IPDI, CAS No 4098-71-9)
  - methyl isocyanate (MIC, CAS No 624-83-9)
  - methylene diphenyl diisocyanate (MDI, CAS No 101-68-8)
  - naphthalene diisocyanate (NDI, CAS No 3173-72-6)
  - toluene-2,4-diisocyanate (TDI, CAS No 584-84-9)
- \* isopropylthioxanthone (ITX, CAS No 5495-84-1 and 83846-86-0)
- \* MELAMINE
  - 1,3,5-Triazine-2,4,6-triamine (CAS No 108-78-1)
- \* MELANIN (CAS No 8049-97-6)
- \* NANOMATERIALS
  - Commission recommendation on the definition of nanomaterial, 2011/696/EU
  - Insoluble or biopersistent and intentionally manufactured materials with one or more external dimensions, or an internal structure, on the scale from 1 to 100 nm
- \* NATURAL RUBBER and NATURAL LATEX
- \* nitroamines
- \* nitrite
- \* nitrate
- \* ORGANO-FLUORINE COMPOUNDS
- \* ORGANO-TIN COMPOUNDS
  - dibutyl-tin (DBT, CAS No 14488-53-0)
  - dibutyltin dichloride (DBTC, CAS No 683-18-1)
  - dioctyl-tin (DOT, CAS No 250252-87-0)
  - monobutyl-tin (MBT, CAS No 78763-54-9)
  - tributyl-tin (TBT, CAS No 36643-28-4)
  - tributyl-tin oxide (TBTO, CAS No 56-35-9)
  - triphenyl-tin (TPT, CAS No 668-34-8)
- \* OXO and/or UV DEGRADABLE ADDITIVES
- \* OZONE-DEPLETING CHEMICALS (ODC's)
  - The ozone-depleting substances (ODS), listed in the Annexes I & II of the Regulation ( EC ) No 1005/2009 of 16 September 2009
  - Class I and Class II ODC's listed in the US Clean Air Act Amendments of 1990, among them:
    - 1,1,1-Trichloroethane (methyl chloroform)
    - bromochloromethane
    - carbon tetrachloride
    - CFC's
    - halons
    - hydrobromofluorocarbons (HBFC)
    - hydrochlorofluorocarbons (HCFC)
    - methyl bromide
- \* PACKAGING AND PACKAGING WASTE
  - Directives 94/62/EC, 2004/12/EC (as amended)
- \* PARABENS
  - Esters of para-hydroxybenzoic-acid
- \* PERCHLORATE COMPOUNDS
- \* PERFLUORINATED HYDROCARBONS
  - Directive 2006/122/EC
  - Perfluorooctanoic acid (PFOA)
  - Perfluorooctane sulfonate (PFOS)
  - Perfluorobutanesulfonic acid (PFBS)
- \* PESTICIDES, HERBICIDES
  - Di-isopropyl-naphthalene's (DIPN, CAS No 24157-81-1)



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\* PHTHALATES

- butyl benzyl phthalate (BBP, CAS No 85-68-7)
- di(2-ethylhexyl) phthalate (DEHP) or di-octyl phthalate (DOP, CAS No 117-81-7)
- di-butyl phthalate (DBP) or di-n-butyl phthalate (DNBP, CAS No 84-74-2)
- di-iso-decyl phthalate (DIDP, CAS No 26761-40-0)
- di-iso-nonyl phthalate (DINP, CAS No 28553-12-0)
- di-n-octyl phthalate (DNOP, CAS No 117-84-0)

Traces of phthalates may be present in some Capilene® resins as impurities from the catalytic system. These traces are in full compliance with Regulation 1907/2006/EC and Directives 2007/19/EC and 2005/84/EC (Annex I of Directive 76/769/EEC). Analytical testing of several phthalates in our Capilene® resins resulted in undetectable content (<1 ppm).

\* phthalic anhydride (CAS No 038103-06-9)

\* PLASTICIZERS

- 1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester (DINCH, CAS No 166412-78-8)
- bis(2-ethylhexyl) adipate (DEHA, CAS No 103-23-1)
- butyryl tri-n-hexyl citrate (BTHC, CAS No 82469-79-2)
- glycerides, castor-oil mono-, hydrogenated, acetates (CAS No 736150-63-3)
- tris(2-ethylhexyl)benzene-1,2,4-tricarboxylate (CAS No 3319-31-1)

\* polychlorinated naphthalenes (PCN)

Regulation 1907/2006/EC Annex XVII

\* polychlorinated terphenyls (PCT)

\* polyethylene glycol (PEG)

\* POLYSTYRENE RESINS

\* polyvinylchloride (PVC, CAS No 9002-86-2)

\* polyvinylidene chloride (PVDC, CAS No 9002-85-1)

\* QUATERNARY AMMONIUM COMPOUNDS

didecyl dimethyl ammonium chloride (DDAC, CAS No 7173-51-5)

benzalkonium chloride (BAC, CAS No 8001-54-5)

\* RADIOACTIVE SUBSTANCES

Directive 96/29/EURATOM

\* RADON (CAS No 10043-92-2)

\* RECYCLED MATERIALS

Regulation 282/2008/EC

\* RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRIC AND ELECTRONIC EQUIPMENT

Directive 2015/863/EU & 2011/65/EU (RoHS) repealing Directive 2002/95/EC

polybrominated biphenyls (PBB) & polybrominated diphenylethers (PBDE), PCB

Chromium (VI), Lead, Mercury and Cadmium

\* SEMICARBAZIDE (SEM) and AZODICARBONAMIDE

Directive 2004/1/EC

\* SILICA GEL (CAS No 99439-28-2)

\* SILICONE (CAS No 90337-93-2)

\* sodium lauryl sulphate (SLS, CAS No 151-21-3)

\* sodium lauryl ether sulphate (SLES, CAS No 9004-82-4)

\* sulphur (s)

\* sulphur dioxide (CAS No 7446-09-5)

\* SYNTHETIC MINERAL FIBERS

\* TALLOW DERIVED ADDITIVES

\* THIURAMS

Tetramethyl thiuram disulfide (CAS No 137-26-8)

Tetraethyl thiuram disulfide (CAS No 97-77-8)

Tetramethyl thiuram monosulfide (CAS No 97-74-5)

Isobutyl thiuram disulfide (CAS No 3064-73-1)

Tetrabenzylthiuram disulfide (CAS No 10591-85-2)

Dipentamethylene thiuramtetrasulfide (CAS No 120-54-7)



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- \* titanium acetyl acetonate (TAA, CAS No 77927-72-9)
- \* titanium dioxide
- \* tributyl phosphate (TBP, CAS No 126-73-8)
- \* tris-Nonylphenol phosphite (TNPP, CAS No 26523-78-4)
- \* UV STABILIZERS and ABSORBERS
  - 2-hydroxybenzophenone (CAS No 117-99-7)
  - 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320, CAS No 3846-71-7)
  - 3-hydroxybenzophenone (CAS No 13020-57-0)
  - 4-hydroxybenzophenone (CAS No 1137-42-4)
  - 4-methylbenzophenone (CAS No 134-84-9)
- BENZOPHENONE DERIVATIVES
  - benzophenone (CAS No 119-61-9)
  - benzotriazole (CAS No 95-14-7)
  - micler's ketone (MK)
- \* vinylchloride monomer (VCM, CAS No 75-01-4)
- \* 2 naphthylamine (CAS No 91-59-8)
- \* 2-mercaptobenzothiazole (MBT, CAS No 149-30-4)
- \* 2,4-pentadione, acetilacetone (ACAC, CAS No 123-54-6)
- \* 2,4-di-tert-butylphenol (CAS No 96-76-4)
- \* 4-aminobiphenyl (CAS No 92-67-1)
- \* 4-aminodiphenyl
- \* 4-nitrodiphenyl
- \* 4-tert-butylphenol (CAS No 98-54-4)
- \* 4-tert-octylphenol (CAS No 140-66-9)

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