

## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

Revised Date: October 7, 2022

## Tricolene LLDPE

### Linear Low Density Polyethylene

Type of Product	References
<b>Tricolene Butene LLDPE</b>	Tricolene LLB1919, Tricolene LLB1918, Tricolene LLB1918B, Tricolene LLB08922SB Tricolene LLB1918SB-3, Tricolene LLB1919SB, Tricolene LLB1923SB, Tricolene LLB1918SB-13, Tricolene LLB1918SB, Tricolene LLB1918SBX, Tricolene LLB2919, Tricolene LLB2919SB, Tricolene LLB2918SB, Tricolene LLB3918, Tricolene LLB3919, Tricolene LLB3925, Tricolene LLB3925SB-3, Tricolene LLBI20925, Tricolene LLBM20925 Powder, Tricolene LLBI50926, Tricolene LLBM50926 Powder
<b>Tricolene Hexene LLDPE</b>	Tricolene LLH1919, Tricolene LLH1918-4, Tricolene LLH1920SB, Tricolene LLH1919SB, Tricolene LLH1918SB, Tricolene LLH2918, Tricolene LLH3918, Tricolene mLLH1918, Tricolene mLLH15918, Tricolene mLLH1918SB, Tricolene mLLH15918SB, Tricolene mLLH35918
<b>Tricolene Octene LLDPE</b>	Tricolene LLO1920, Tricolene LLO1920B, Tricolene LLO1920SB, Tricolene LLO2920, Tricolene mLLO4917

**TRICON ENERGY LTD.** confirms that the prime grades mentioned above comply with the following regulations, according to the latest information provided by our suppliers:

### United States Food Regulations (FDA)

The grades and the additives incorporated in it comply with the Food and Drug Administration (FDA) regulation: **CFR Title 21, 177.1520: Olefin Polymers:**

PE Resin	FDA Clearance 21 CFR 177.1520	Specifications 21 CFR 177.1520	Conditions of Use 21 CFR 176.170(c) Table 2
Tricolene butene LLDPE	(a)(3)(i)(c)(1)	(c)(3.2a)	A-H
Tricolene hexene LLDPE	(a)(3)(i)(a)(2)	(c)(3.2a)	A-H
Tricolene octene LLDPE	(a)(3)(i)(a)(1)	(c)(3.2a)	A-H

### Canada Food Contact Regulations (HPFB)

A "Letter of No Objection" for these products has been approved by Health Canada. These products may be used in food contact applications such as bottles, food pails, caps, films, and casings under and at the temperature of 212 °F (100 °C) for all types of food.

**Tricolene LLDPE**  
**Linear Low Density Polyethylene**



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

**Mercosur Food Contact Regulations**

These listed resins comply with the relevant requirements of the resolutions published by Common Market Group - Grupo Mercado Comun (MERCOSUR):

- **GMC N° 03/92** - General provisions for food contact materials
- **GMC N° 56/92** - General provisions for plastic materials
- **GMC N° 02/12** and their amendment **GMC N° 19/21** - Positive List of Monomers, Other Starting Substances, and Polymers Authorized for the Preparation of Plastic Containers and Equipment in Contact with Food.
- **GMC N° 32/07** and their amendment **GMC N° 39/19** - Positive list of additives for preparing plastic materials and polymeric coatings that come into contact with food.

**Brazil Food Contact**

These listed resins comply with the relevant requirements of the resolutions published by The National Health Surveillance Agency (ANVISA):

- **RDC N° 91/2001** - General provisions for food contact materials
- **RDC N° 105/1999** and their amendment **RDC N° 589/2021** - General provisions for plastic materials
- **RDC N° 56/2012** and their amendment **RDC N° 589/2021** - Positive list of monomers, other initiating substances, and polymers authorized for the preparation of packaging and plastic equipment in contact with food.
- **RDC N° 326/2019** - Positive list of additives intended for the elaboration of plastic materials and polymeric coatings in contact with food and provides other arrangements.

**European Union (EU) Food Contact Regulations**

The composition of the listed resins complies with the European Union's food contact regulations, including the Framework **Regulation (EC) N° 1935/2004** and **Regulation (EU) N° 10/2011**, and amendments up to **Regulation (EU) 2020/1245**

The monomers and additives used to produce those products are listed in the Union List of Authorized Substances of **Regulation (EU) N°10/2011**.

Tricolene Butene LLDPEs do not have monomers that are regulated with Specific Migration Limits (SML). Tricolene Hexene and Octene LLDPEs have monomers that are regulated with Specific Migration Limits (SML).

These resins contain one or more additives that are regulated with an SML, but all grades comply with the requirement of Overall Migration Limit (OML) of 60 mg/kg as mentioned in **Regulation (EU) N°10/2011**.

**Tricolene LLDPE**  
**Linear Low Density Polyethylene**



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
 Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

PE Resin	Chemical Name	CAS #	SML
Hexene Tricolene LLDPE	1-hexene	0000592-41-6	3 mg/kg
Octene Tricolene LLDPE	1-octene	0000111-66-0	15 mg/kg
Tricolene LLDPE	Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate	2082-79-3	6 mg/kg

**Dual Use Additives**

These resins do not have dual additives listed on **Regulation (EC) N° 1333/2008**: Food Additives and/or **Regulation (EU) N° 1334/2008**: Flavourings

**China Food Contact Regulations**

With respect to the requirements set out in the following national standards that apply to these categories:

- 1)National Standard of the People's Republic of China **GB4806.1-2016**, National Food Safety Standard on General Safety Requirements of Food Contact Materials and Articles.
- 2)National Standard of the People's Republic of China **GB4806.6-2016**, National Food Safety Standard on Plastic Resins for Food Contact.
- 3)National Standard of the People's Republic of China **GB9685-2016**, National Food Safety Standard on Use of Additives in Food Contact Materials and Articles.
- 4)National Standard of the People's Republic of China **GB31603-2015**, National Food Safety Standard on General Hygienic Practice for Production of Food Contact Materials and Its Products.

**Good Manufacturing Practices (GMP)**

This product is produced following good manufacturing practices (GMP) as outlined in:

- USA: **21 CFR 174.5**.
- Europe: EU Regulation **(EC) No 2023/2006**
- China: **GB 31603-2015**

## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
 Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

### Chemical Inventories

All the components of those products are listed on the following inventories:

CANADA	Domestic Substances List (DSL)
PEOPLE'S REPUBLIC OF CHINA	Inventory of Existing Chemical Substances
EUROPEAN UNION	All necessary components have been registered or pre-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)
TAIWAN	Taiwan Chemical Substance Inventory (TCSI)
UNITED STATES	Toxic Substances Control Act (TSCA) Chemical Inventory

### Phthalates

No phthalates, including:

Chemical Name	CAS #
Butyl benzyl phthalate (BBP)	85-68-7
Dimethyl terephthalate (DMT)	120-61-6
Di-iso-decyl phthalate (DIDP)	26761-40-0
Dimethyl phthalate (DMP)	131-11-3
Di-n-hexyl phthalate (DnHP)	84-75-3
Bis(2-methoxyethyl) phthalate	117-82-8
Diheptyl phthalate (DHP)	3648-21-3
N-pentyl-isopentylphthalate	776297-69-9
Dipentyl phthalate	131-18-0
Di-isobutyl phthalate (DIBP)	84-69-5
Di-isononyl phthalate (DINP)	28553-12-0
Diethyl phthalate (DEP)	84-66-2
Di-n-octyl phthalate (DnOP)	117-84-0
Dibutyl phthalate (DBP)	84-74-2
Dipropyl phthalate	131-16-8
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7

**Tricolene LLDPE**  
**Linear Low Density Polyethylene**



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

Isobutyl ethyl phthalate	94491-96-0
--------------------------	------------

These products, therefore, meet the requirements of the Consumer Product Safety Improvement Act of 2008 and **EU Directive 2005/84/EC**

**Plasticizers**

Plasticizers such as sebacates, adipates, terephthalates, dibenzoates, glutarates, azelates, epoxidized soybean oil (ESBO) are not intentionally added to this product.

**Restriction of Hazardous Substances - RoHS**

This product complies with the standards established by **Directive 2002/95/EC** (RoHS 1), **Directive 2011/65/EU** (RoHS 2) as amended by **Directive 2017/2102/EU** and **Directive 2019/1846/EU** and **Directive 2015/863/EU** (RoHS 3). This product does not contain/contains less than the maximum levels of the following restricted substances:

- Lead (Pb): < 1000 ppm
- Mercury (Hg): < 100 ppm
- Cadmium (Cd): < 100 ppm
- Hexavalent Chromium: (Cr VI) < 1000 ppm
- Polybrominated Biphenyls (PBB): < 1000 ppm
- Polybrominated Diphenyl Ethers (PBDE): < 1000 ppm
- Bis(2-Ethylhexyl) phthalate (DEHP): < 1000 ppm
- Benzyl butyl phthalate (BBP): < 1000 ppm
- Dibutyl phthalate (DBP): < 1000 ppm
- Diisobutyl phthalate (DIBP): < 1000 ppm

**Coalition of Northeastern Governors (CONEG)**

Producers do not intentionally add lead, mercury, cadmium, or hexavalent chromium to these products. Thus, these products do not contain incidental levels lead, mercury, cadmium or hexavalent chromium greater than 100 parts per million (ppm) in compliance with **CONEG Model Legislation**.

**Packaging and Packaging Waste**

Producers do not intentionally add lead, mercury, cadmium, or hexavalent chromium to these products. Thus, these products do not contain incidental levels of lead, mercury, cadmium, or hexavalent chromium greater than 100 parts per million (ppm). This product is potentially recyclable as described in **European Directive 94/62/EC**.

**Tricolene LLDPE**  
**Linear Low Density Polyethylene**



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

**Consumer Product Safety Improvement Act of 2008 (H.R. 4040)**

These products do not contain lead and phthalates. It, therefore, complies with the relevant sections of the **Consumer Product Safety Improvement Act of 2008 (H.R. 4040)**.

**California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

These products, as shipped, do 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** (March 19, 2021)

**Clean Air**

These products do not contain any ozone-depleting substances, including those listed in **Regulation (EC) No 1005/2009**.

These products do 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)

**Safety of Toys**

As for compliance of the above product with the requirements set out in Annex II "Particular Safety requirements" - Paragraph III - of the **Directive 2009/48/EC**, the following can be declared:

- This polymer is a preparation that is not classified according to the criteria set out in Annex I of Regulation 1272/2008.
- Allergenic fragrances, as listed in Annex II.III.11 are not intentionally used in this polymer.
- Nitrosamines and nitrosable substances are not intentionally used in this polymer.
- The following metallic elements referred to in the European Norm **EN 71-3:2013** (Safety of toys - Part 3: Migration of certain elements) are not intentionally used in the above products. Although those products are not routinely tested for their presence, based on product composition knowledge these metallic elements are not expected to be present: Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (III), Chromium (VI), Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Organic tin, Zinc

**Tricolene LLDPE**  
**Linear Low Density Polyethylene**



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

As regards the European Norm **EN 71-9:2005+A1:2007** ("Safety of Toys - Part 9: Organic Chemical Compounds - Requirements"), the requirements established by the European Commission for the substances listed in the following "Limit tables" address the risks presented by organic compounds in polymeric toy materials used in toys and toy components:

- Table 2B - Colourants
- Table 2C - Primary aromatic amines
- Table 2D - Monomers (migration) (See note 1)
- Table 2E - Solvents (migration)
- Table 2F - Solvents (inhalation)
- Table 2H - Preservatives (other than wood preservatives) (See note 1)
- Table 2I - Plasticizers (migration)

These substances are not intentionally used in these products.

**Genetically Modified Organisms (GMO)**

Substances derived from Genetically Modified Organisms (GMO) are not intentionally added in this product.

**Plant-Derived Substances**

These products do not contain additives and/or monomers derived from plants and/or its parts.

**Animal-Derived Materials (ADM)/ BSE/TSE**

No animal-derived materials are used in the manufacture or formulation of these products. These products can be considered free from bovine spongiform encephalopathy (BSE) and other transmissible spongiform encephalopathies (TSE).

**Animal- Derived Substances - Kosher**

No animal-derived materials are used in the manufacture or formulation of this product and as such no materials of porcine/pigs, fish, shellfish, rabbits, reptiles, blood, or derived from blood are used. No grape, grape-derived, ethanol, or ethanol-derived materials are used. Our suppliers have not made any efforts to certify these PE resins as Kosher or in compliance with Kosher guidelines.

**Animal- Derived Substances - Halal**

No animal-derived materials are used in the manufacture or formulation of this product and as such no materials of ruminant animals (bovine/cattle, caprine/goat, ovine/sheep), non-ruminant animals (humans, insects, fish, porcine, poultry), blood, or derived from blood are used. No ethanol, ethanol-derived materials or fermented materials are used in the manufacture of this product. Our suppliers have not made any efforts to certify these PE resins as Halal or in compliance with Halal guidelines.



**Tricolene LLDPE**  
**Linear Low Density Polyethylene**



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

**Allergens**

The allergens listed on Annex II of **Regulation (EU) No 1169/2011** and below are not intentionally added in this product:

- Cereals containing gluten, namely: wheat, rye, barley, oats, spelt, kamut or their hybridized strains, and products thereof
- Crustaceans and products thereof
- Eggs and products thereof
- Fish and products thereof
- Peanuts and products thereof
- Soybeans and products thereof
- Wheat-derived starches
- Casein-derived coatings
- Milk and products thereof (including lactose)
- Nuts, namely: almonds (*Amygdalus communis* L.), hazelnuts (*Corylus avellana*), walnuts (*Juglans regia*), cashews (*Anacardium occidentale*), pecan nuts (*Carya illinoensis* (Wangenh.) K. Koch), Brazil nuts (*Bertholletia excelsa*), pistachio nuts (*Pistacia vera*), macadamia or Queensland nuts (*Macadamia ternifolia*), and products thereof
- Celery and products thereof
- Mustard and products thereof
- Sesame seeds and products thereof
- Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/L
- Lupin and products thereof
- Mollusks and products thereof

**European Chemicals Agency (ECHA) Substances of Concern**

These products do not contain any Substances of Very High Concern (SVHC) as listed on the candidate list published by **ECHA**. These products do not contain substances restricted under **REACH Annex XVII** (Restricted Substances List) or subject to authorization under Annex XIV (Authorization List). Last update: *June 10, 2022*.

**Nanomaterials**

These products are not nanomaterials and do not contain any intentionally added functional nanoparticles. **Regulation (EU) N° 2283/2015**

**Conflict Minerals**

Neither tantalum, tin, gold, and tungsten, nor the minerals associated with these metals (Columbite- Tantalite, Cassiterite, Gold, or Wolframite) are not intentionally added to these products. These substances are not necessary to the production of th product. **Regulation 2017/821 (EU); US Dodd–Frank Consumer Protection Act**



## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
 Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

### Bisphenols

These products are not manufactured or formulated with the following bisphenol compounds, including but not limited to BPA, BPB, BPC, BPE, BPF, BPH, BPS, and BPZ:

Bisphenol Type	CAS #
Bisphenol A (BPA)	80-05-7
Bisphenol B (BPB)	77-40-7
Bisphenol F (BPF)	620-92-8
Bisphenol S (BPS)	80-09-1
Bisphenol-F-diglycidyl ether (BFDGE)	2095-03-6
Bisphenol-A-diglycidyl ether (BADGE)	1675-54-3
Novolac Glycidyl Ethers (NOGE)	158163-01-0
Tetrabromobisphenol-A	79-94-7

As these substances are not intentionally added, our suppliers do not test for these substances in our products.

**Regulation EC 1895/2005** - on the restriction of the use of certain epoxy derivatives in materials and articles intended to come into contact with food: Our suppliers do not intentionally add BFDGE, BADGE, and NOGE in the composition of its products.

### Endocrine Disruptors

An endocrine disruptor is a compound have been shown to possess endocrine disrupting properties with an ability to interfere in the actions of many hormones and to contribute to human health problems. Much of the reported disruptive activity has been in relation to the action of estrogens, androgens, and thyroid hormones, and concerns have been raised for adverse consequences on female and male reproductive health, thyroid function, metabolic alterations, brain development/function, immune responses, and development of cancers in hormone-sensitive tissues. These compounds for now are Bisphenol A (BPA), Dioxins, Atrazine, Phthalates, Perchlorate, Fire Retardants, Lead, Arsenic, Mercury, Perfluorinated Chemicals (PFCs) Organophosphate Pesticides and Glycol Ethers such as 2-butoxyethanol (EGBE) and methoxydiglycol (DEGME).

These compounds are not intentionally added to the manufacturing process of these products.

### Dyes, Colorants or Pigments

These products are not manufactured or formulated with carbon black, dyes, inks, or pigments, including azo colorants and azodyes.

### Latex

Natural rubber latex (NRL), dry natural rubber (DRL), synthetic latex, or rubber that contains natural rubber are not intentionally added to the manufacturing process of these products.

## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
 Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

### Alkylphenols & Alkylphenol Ethoxylates

Our suppliers do not intentionally add alkylphenols or alkylphenol ethoxylates to these products, including Nonylphenol ethoxylates and Octylphenol ethoxylates.

Our suppliers also do not add the following simple substituted phenols to these products:

Chemical Name	CAS #
Nonylphenol (NP)	25154-52-3
Nonylphenol Ethoxylate	68412-53-3
Tris(nonylphenyl)phosphite (TNPP)	26523-78-4
Di(nonylphenyl)phenylphosphite (DNPP)	25417-08-7

### Polycyclic Aromatic Hydrocarbons (PAH)

Our suppliers do not intentionally add or use any of the following Polycyclic Aromatic Hydrocarbons (PAH) during the manufacturing of our products:

Polycyclic Aromatic Hydrocarbons (PAH)	CAS #
9H-Fluorene	86-73-7
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo(a)anthracene	56-55-3
Benzo(a)pyrene	50-32-8
Benzo(b)fluoranthene	205-99-2
Benzo(e)pyrene	192-97-2
Benzo(ghi)perylene	191-24-2
Benzo(j)fluoranthene	205-82-3
Benzo(k)fluoranthene	207-08-9
Chrysene	218-01-9
Dibenzo(ah)anthracene	53-70-3
Indeno(1,2,3-cd) pyrene	193-39-5
Fluorene	86-73-7
Fluoranthene	206-44-0
Naphthalene	91-20-3
Pyrene	129-00-0
Phenanthrene	85-01-8

## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

### Ozone Depleting Substances

These products are not manufactured with any of **US EPA's** Class I or Class II Ozone Depleting Chemicals (ODC) or the ODCs listed under the **Montreal Protocol** or the Ozone Depleting Substances listed in Annexes I & II of **EU Directive 1005/2009/EC** of September 16 2009.

Chlorofluorocarbons (CFC), Hydrochlorofluorocarbons (HCFC), Hydrofluorocarbons (HFC):

Chemical Name	CAS #
Chlorofluorocarbons (CFCs)	n/a
Halon.	9036-80-0
Carbon Tetrachloride (CCl <sub>4</sub> )	56-23-5
Methyl Chloroform (CH <sub>3</sub> CCl <sub>3</sub> )	67-66-3
Hydrobromofluorocarbons (HBFCs)	n/a
Hydrochlorofluorocarbons (HCFCs) including HCFC 141 b (1,1-Dichloro-1-fluoroethane), HCFC 142 b (Chloro-1,1-difluoroethane) or HCFC 22	1717-00-6, 75-68-3,
Methyl Bromide (CH <sub>3</sub> Br)	74-83-9
Bromochloromethane (CH <sub>2</sub> BrCl)	74-97-5

### Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

Our suppliers do not intentionally add or use any of the following compounds during the manufacture of these products:

Chemical Name	CAS #
Perfluorooctanoic Acid (PFOA)	335-67-1
Perfluorooctane Sulfonate (PFOS)	1763-23-1
Ethyl perfluorooctane Sulfonamide	4151-50-2
Perfluoro-n-butyric Acid,	375-22-4
Perfluorooctane Sulfonamide	754-91-6
Pentafluoropropionic Acid/ Silver	422-64-0
pentafluoropropionic Acid	509-09-1
Perfluorononanoic Acid (PFNA)	375-95-1
Perfluoropentanoic Acid	2706-90-3
Perfluorodecane Sulfonate	126105-34-8
Perfluorohexane Sulfonic Acid (PFHxS)	355-46-4
Perfluorodecanoic Acid	335-76-2
Perfluoroheptanoic Acid	375-85-9
Perfluorododecanoic Acid	307-55-1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) -"GenX Chemicals"	13252-13-6
HFPO-DA Ammonium Salt - "GenX Chemicals"	62037-80-3

**Tricolene LLDPE**  
**Linear Low Density Polyethylene**



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

**Persistent Organic Pollutants (POPs)**

Our suppliers comply with the provisions of the **Regulation (EU) 2019/1021** of the European Parliament and of the Council of June 20 2019 on persistent organic pollutants and all amendments up to Regulation (EU) 2021/277 of December 16 2020.

Our suppliers do not intentionally add or use persistent organic pollutants (POPs) during the manufacture of this product.

**Pesticides**

These products are not intended for use as a pesticide and are not listed in the Annex "Active Substances Approved for Use In Plant Protection Products (i.e. fungicides, insecticides, plant growth regulators, rooting hormones, preserving plant products, herbicides, weed killers ...) of the Commission Regulation No 540/2011 implementing **Regulation (EC) No 1107/2009** as regards the list of approved active substances.

**Flame Retardants**

The following types of brominated or halogenated flame retardants are not intentionally used by our suppliers in these products:

- Minerals such as aluminium hydroxide, magnesium hydroxide, hydromagnesite and borates salts
- Organohalogen compounds including organochlorines such as, chlorendic acid derivatives and chlorinated paraffins; organobromines such as polybrominated biphenyls (PBB), polybrominated biphenyl oxide (PBBO), polybrominated diphenyl ethers (PBDEs) (including: decaBDE, octaBDE, and pentaBDE), tetrabromobisphenol (TBBP-A), polybrominatedterphenyls (PBTs) and hexabromocyclododecane (HBCD or HBCDD).
- Antimony trioxide
- Organophosphorus compounds such as organophosphates, tris(2,3-dibromopropyl) phosphate, TPP, RDP, BPADP, tri-o-cresyl phosphate, phosphonates such as DMMP and phosphinates. Chlorophosphates like TMCP - Tris(2-chloroisopropyl) phosphate-, and TDCP -Tris(1,3-

**Recycled Materials**

No external sources of mechanical recycled postconsumer plastic materials are used in the manufacture of above products.

## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
 Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

### Regulation 1223/2009 of November 30, 2009 on Cosmetic Products

The following substances as such are not intentionally used or added:

- “Substances prohibited in cosmetic products” as listed in Annex II from EU Regulation (EC) No 1223/2009/EC on cosmetic products.
- “Substances which cosmetic products must not contain except subject to the restrictions laid down” as listed in Annex III of EU Regulation (EC) No 1223/2009/EC on cosmetic products including amendments up to and including Commission Regulation (EU) 2022/135 of January 31 2022.

### Absence of Substances and Chemicals

None of the following substances are used as additives or raw materials in the manufacture of these products:

Chemical Name	CAS #
1,1,1-Trichloroethane	71-55-6
1,1,2,2-Tetrachloroethane	79-34-5
1,1,2-Trichloroethane	79-00-5
1,2-Dichloroethane	107-06-2
2-(2-Hydroxy-3,5-di-tert-butylphenyl) benzotriazole	3846-71-7
2,3,7 8-Tetrachlorodibenzo-para-dioxin	1746-01-6
2,2-bis(4-hydroxyphenyl) propane bis(2,3-epoxypropyl) ether (BADGE)	1675-54-3
2,4 and/or 2,6-Toluene diisocyanate	584-84-9; 91-08-7
2,4,6-tris(tert-butyl) phenol	732-26-3
2-Bromopropane	75-26-3
2-Ethoxyethanol and 2-Ethoxyethanol acetate	110-80-5;111-15-9
2-Ethoxy-1-propanol ( $\beta$ -isomer)	9089-47-5
2-Ethyl hexyl acrylate (2-EHA)	103-11-7
2-Methoxy-1-propanol	107-98-2
2-Methoxyethanol	109-86-4
2-Methoxyethanol Acetate	110-49-6
2-Naphtylamine + Salts	91-59-8
4-Aminodiphenyl	92-67-1
4-Nitrobiphenyl +Salts	92-93-3
4-Nitrotoluene	99-99-0
4,4-Tetramethyldiamino benzophenone (Michler's Ketone)	90-94-8
Abietic Acid	64-19-7
Acetyltributylcitrate	77-90-7
Acrylamide	79-06-1
Acrylonitrile or acrylonitrile co-polymers	107-13-1
Aldrin	309-00-2
Aminobiphenyl (4-) + Salts	92-67-1
Antimony Trioxide	1309-64-4
Aromatic Amines	n/a
Asbestos	1332-21-4

## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
 Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

Azodicarbonamide (ADA)	123-77-3
Azo compounds	n/a
Benzenamine, 2-ethyl-N-(2-ethylphenyl)-,(tripropenyl) derivs.	68608-77-5
Benzenamine, 4-(1,1,3,3-tetramethylbutyl)-N-[4-(1,1,3,3-tetramethylbutyl) phenyl]	15721-78-5
Benzenamine, 4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl) phenyl]	10081-67-1
Benzenamine, 4-nonyl-N-(4-nonylphenyl)	24925-59-5
Benzenamine, 4-octyl-N-(4-octylphenyl)	101-67-7
Benzenamine, 4-octyl-N-phenyl	4175-37-5
Benzenamine, ar-nonyl-N-(nonylphenyl)	36878-20-3
Benzenamine, ar-octyl-N-(octylphenyl)	26603-23-6
Benzenamine, ar-nonyl-N-phenyl-	27177-41-9
Benzamine, N-phenyl-, (tripropenyl) derivs.	68608-79-7
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1
Benzenamine, N-phenyl-, reaction products with isobutylene and 2,4,4-trimethylpentene	184378-08-3
Benzenamine, N-phenyl-, styrenated	68442-68-2
Benzidine (+ salts)	92-87-5
Benzothiazolinone (BIT)	2634-33-5
Biocides (Pesti-, Herbi-, Insecti-, Fungi-, Bactericides) and other Fumigants, including Kathon CG and Kepone	n/a
Bis(chloromethyl)ether (BCME)	542-88-1
Bromide/Bromine	7726-95-6, 24959-67-9
Butylated Hydroxytoluene (BHT) and Tertiary butylhydroquinone (TBHQ)	
Butylglycidylether (BGE)	2426-08-6
Butylated Hydroxyanisole (BHA)	25013-16-5
Cellulose Acetate	9004-35-7
Ceramic Fibers	n/a
Chlorine	7782-50-5
Chlorinated Paraffins, Chlorinated Hydrocarbons	63449-39-8
Chlorocresol (meta-) and (ortho-)	59-50-7
Chloroform	67-66-3
Clorodifluorometano	75-45-6
Chloromethylisothiazolinone (CIT)	26172-55-4
Chromic Acid	7738-94-5
Colophony (rosin) and its derivatives	8050-09-7
Creosote	8001-58-9
Cyanuric Acid	108-80-5
Deca-bromodiphenylether (DBDE)	1163-19-5
Dechlorane A	13560-88-9
Dimethyl di(hydrogenated tallow) ammonium chloride (DHTDMAC)	61789-80-8
Diacetyl	431-03-8
Dichloromethane	75-09-2
Dieldrin	60-57-1

## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
 Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

Di(ethylhexyl) adipate (DEHA), diethyl hydroxyl amine (DEHA), or di(ethylhexyl)maleate (DEHM)	n/a
Dimethylformamide	68-12-2
Dimethylfumarate (DMF)	624-49-7
Difurans, Dioxins and Furans	n/a
Endrin	72-20-8
Epichlorohydrin	106-89-8
Ethylene Glycol	107-21-1
Ethylene Oxide	75-21-8
Epoxy derivatives listed in EU Directives 2002/16/EC and 1895/2005	n/a
Epoxidised Soybean Oil	8013-07-8
Formaldehyde - not intentionally added, but a known thermal degradation product of polyolefins under extreme conditions	50-00-0
Fragrances	n/a
Glycol Ethers (EGME, EGMEA, EGDME, EGEE, EGEEA, EGDME, DEGME, DEGDME, TEGDME, 1PG2ME and 1PG2MEA)	109-89-4; 110-49-6 110-80-5; 110-71-4; 111-1 5-9, 111-96-6; 111-77-3; 112-49-2, 1589-47-5, 70657-70-4
Hexabromobiphenyls	36355-01-8
Heptachlor	76-44-8
Hexabromocyclododecane (HBCDD)	25637-99-4
Hexachlorobenzene	118-74-1
Hexachlorobutadiene	87-68-3
Hexafluoropropylene (HFP)	116-15-4
Hexamethylene-1,6-diisocyanate	822-06-0
Hydrobromofluorocarbons (HBFCs)	n/a
Hydrochlorofluorocarbons	n/a
Hydrofluoric Acid (HF)	7664-39-3
Hydrofluorocarbons (HFCs)	n/a
Indeno (1,2,3-cd) pyrene	193-39-5
Limonene	138-86-3
Methyl-di-p-phenylene isocyanate (MDI)	101-68-8; 9016-87-9
Melamine; Melamine Cyanuric acid	108-78-1; 37640-57-6
Methylbromide	74-83-9
Methylchloroform	71-55-6
Methylisothiazolinone (MIT)	2682-20-4
Methylenedianiline (4,4'-)	101-77-9
Methylglycol	109-86-4
Mirex	2385-85-5
Mineral Oil Saturated Hydrocarbons (MOSH) or Mineral Oil Aromatic Hydrocarbons (MOAH)	n/a
N-butylbenzene	104-51-8
Nitrosamines, N-nitrosamines/N-nitrosamides	n/a



## Tricolene LLDPE

### Linear Low Density Polyethylene



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
 Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

Organoarsenic Compounds	n/a
Ortho-anisidine	90-04-0
Organophosphate Flame Retardants (e.g. TCPP, TCEP, TDCP)	n/a
Organotin Compounds	n/a
Parabens (Methylparaben, Ethylparaben, Propylparaben, Butylparaben)	99-76-3; 120-47-8; 94-13-3; 94-26-8
Pentachlorothiophenol	133-49-3
Phenol, isopropylated phosphate (3:1)	68937-41-7
Photoinitiators, including Benzophenone, hydroxybenzophenones, and 4-methylbenzophenone, and Isopropylthioxanthone (ITX)	119-61-9
Polybrominated Diphenyl Ethers (PBDEs) included: decaBDE, octaBDE, and pentaBDE	1163-19-5, 32536-52-0
Polychlorinated Bi-, Terphenyls and Naphthalenes: e.g. Pentachlorophenol [PCP], Phenyl-b-naphthylamine, Naphthylamine, Polychlorinatedbiphenyls [PCB], Polychlorinatednaphthalene [PCN] and Polychlorinatedterphenyls [PCT]	135-88-6, 956-90-1
Radioactive Substances	n/a
Polycarbonate	25037-45-0
Polydimethylsiloxane (PDMS)	63148-62-9
Polystyrene	9003-53-6
Pyroxylin (Nitrocellulose)	9004-70-0
Polyacrylonitrile	25014-41-9
Resorcinol	108-46-3
Semicarbazide	57-56-7
Silicon	7440-21-3
Silicone (silicone rubber, silicone oil)	63394-02-5; 63148-62-9
Strontium Chromate	7789-06-2
Styrene	100-42-5
Sulfonamides	n/a
Sulfur dioxide	7446-09-5
Sulfur hexafluoride	2551-62-4
Radioactive Substances	n/a
Tartrazine	1934-21-0
Tert -butyl Hydroquinone = Tertiary butylhydroquinone (TBHQ)	1948-33-0
Tetrachloroethylene	127-18-4
Tetrachlorophthalicanhydride (TCPA)	117-08-8
Thiocarbamide	62-56-6
Tetrahydrofuran	109-99-9
Thiocyanic acid (2-benzothiazolythiomethylester) (TCMTB)	21564-17-0
Thiram (TMTD)	137-26-8
Titanium Acetylacetonate (TAA)	17501-79-0
Toluidine (p- and o-)	106-49-0; 95-35-4
Toxaphene	8001-35-2
Trichloroethylene	79-01-6
Triclosan o 5-chloro-2-(2,4-dichlorophenoxy) phenol	3380-34-5

**Tricolene LLDPE**  
**Linear Low Density Polyethylene**



777 Post Oak Blvd, Suite 550, Houston TX, 77056 USA  
Phone: +1-713-963-0066 [www.triconenergy.com](http://www.triconenergy.com)

Triglycerin	56090-54-1
UV-hardeners (e.g. ITX, Titanyl-acetylacetone)	5495-84-1, 14024-64-7
Vinyl Chloride Monomer (VCM) and Polyvinyl Chloride (PVC) or copolymers	75-01-4, 9002-86-2
Vinylidene Chloride	75-34-5
Vinylidene Fluoride (1,1-Difluoroethylene)	75-38-7
Xylene	1330-20-7
Yellow phosphorous	12185-10-3