

EL-Lene™ H5480S : High Density Polyethylene

1) Global Chemical Inventory Status

This product and all components are listed on the following chemical inventories.

Country	Name of Chemical Inventory	Status
United State	Toxic Substances Control Act Inventory (TSCA)	Listed
Canada	Domestic Substance List/Non- Domestic Substance List (DSL/NDSL)	Listed
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed (Exempted for polymer)
Japan	Japanese Existing and New Chemical Substances Inventory (ENCS/MITI)	Listed
China	Chinese Chemical Inventory of Existing Chemical Substances (IECSC)	Listed
Korea	Korea Existing Chemicals Inventory (KECI)	Listed
Taiwan	Taiwan's national existing chemical inventory (NECI)	Listed
Australia	Australian Inventory of Chemical Substances (AICS)	Listed
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Listed
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Listed

2) Food Contact Compliance

Regulation (EC) No 1935/2004 (Framework)

TPE maintains the adequate records of purchase, sales, distribution and all stage manufacturing to fulfill the requirements of Traceability (Article 17).

European Union (EU) Food Contact – Commission Regulation (EU) No 10/2011

This product meets the requirements for plastic materials and articles intended to come into contact with food as described in Commission Regulation (EU) No 10/2011 and its amendment (Commission Regulation (EU) No 1282/2011, 1183/2012 and 202/2014).

Monomers and additives used to manufacture of this product are listed in "Union list of authorised substances" (Annex I) of this regulation. No Monomers subject to restriction (Specific Migration Limit – SML) are used in manufacturing. There is one additive subject to a Specific Migration Limit (SML) of 6 mg/kg and the result is not exceeded the limit. Approval direct food additive - Calcium stearate is presented as additive in this product.

The overall migration under the conditions 2 hr at 100°C (OM5), in the standard food simulants (A, B, C, D1 and D2) is less than 10 mg/dm² as the maximum overall migration from plastic materials and articles. The specific migration of heavy metal does not exceed their limits as well.

US Food and Drug Administration (FDA)

This product meets the FDA requirements contained in the Code of Federal Regulations in 21 CFR 177.1520 Olefin polymers (c) 2.1 referred to articles that contact food except for articles used for packing or holding food during cooking.

China's Hygienic Standards

Additives used to manufacture of this product are listed in Hygienic Standards for Uses of Additives in food containers and packaging materials (GB9685-2008) and the dosage amount of additives are not exceeded the maximum level (%) for plastic (PE) as specified in Annex A.

Thailand Food Container and Packaging Materials

This product meets the requirements of Thailand Industrial Standard for Polyethylene Resin (TIS 816) including the food safety criteria (migration of substances from plastic materials) as tested by the methods specified in TIS 656 : standard methods of analysis for plastics used for food contact.

3) Environmental Legislations

This product meets the relevant requirements of the following directives or regulations;

- Directive 94/62/EC on packaging and packaging waste (PPWD)
- Coalition of Northeastern Governors (CONEG)
- Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) and Directive 2011/65/EU (RoHS Recast)
- Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)
- Directive 2000/53/EC on end-of life vehicles (ELV)

4) Regulation (EC) No.1907/2006 (REACH)

Under REACH Regulation (EC) No 1907/2006, polymers are exempted from registration according to the provisions of Title II (Article 2(9)). However, monomers have to be registered, if they are part of the polymer for more than 2% and if they are produced or imported in a volume of more than 1 tpa.

At this stage, we already completed the registration for our monomer (Ethylene, But-1-ene and propene) since 30 Nov 2010.

In additions, there are no inclusions of Substances of Very High Concern (SVHC), as defined under REACH Regulation (EC) No 1907/2006, in the manufacturing process of our products, in a concentration above 0.1 %. The Candidate List of Substances of Very High Concern (SVHC) for authorization is available on ECHA's website; please use the following link:

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

5) Substances of Concern

The following substances are not intentionally used in the manufacture or formulation of this product. However, this product has not been tested for those substances.

California Proposition 65

Substances listed in California Proposition 65, Chemicals known to the State to cause cancer or reproductive toxicity are not used in the manufacture or formulation of this product.

http://oehha.ca.gov/prop65/prop65_list/newlist.html

Animal Derived Materials/Bovine Spongiform Encephalopathy (BSE)/Transmissible Spongiform Encephalopathy (TSE)

Animal fats, oils, milk products or other animal- or tallow-derived products are not intentionally used in the manufacture or formulation of this product.

Antimicrobial agents/Fungicides/Pesticides

Antimicrobial agents, fungicides or pesticides are not intentionally used in the manufacture or formulation of this product.

Food Allergens - Directive 2000/13/EC

Food allergens as defined in Directive 2000/13/EC (such as peanuts, lupine, soy/soybeans, carmine/cochineal, milk, eggs, fish, shellfish/crustacea, tree nuts, celery, sesame seeds, mustard, glutamates, glutamic acid, MSG or hydrolyzed vegetable proteins, nitrites or sulfites, or grains/cereals containing gluten substances) are not intentionally used in the manufacture or formulation of this product.

Bisphenol A

Bisphenol A is not intentionally used in the manufacture or formulation of this product.

Epoxy Derivatives - Commission Regulation (EC) No1895/2005.

Bisphenol A diglycidyl ether (BADGE), bisphenol F diglycidyl ether (BFDGE) and novolac glycidyl ether (NOGE) are not intentionally used in the manufacture or formulation of this product according to requirements of Commission Regulation (EC) No1895/2005.

Dimethyl Fumarate (DMF) - Commission Decision 2009/251/EC

Dimethyl Fumarate is not intentionally used in the manufacture or formulation of this product.

Triclosan - Commission Decision 2010/169/EU

Triclosan (2,4,4'-trichloro-2'-hydroxydiphenyl ether) is not intentionally used in the manufacture or formulation of this product.

Asbestos

Asbestos is not intentionally used in the manufacture or formulation of this product.

Azo Colorants/Pigments

Azo colorants or other pigments are not intentionally used in the manufacture or formulation of this product.

Benzophenones, 4-methylbenzophenone and Hydroxybenzophenone

Benzophenones, 4-methylbenzophenone and Hydroxybenzophenone are not intentionally used in the manufacture or formulation of this product.

Butylated hydroxyanisole (BHA) and Butylated hydroxytoluene (BHT)

BHA and BHT are not intentionally used in the manufacture or formulation of this product.

Alkylphenols and Ethoxylates

Alkylphenols, ethoxylates such as Nonylphenol (NP), Nonylphenol Ethoxylates (NPE) and Tris (nonylphenyl)phosphite (TNPP) or estrogen-mimicking compounds are not intentionally used in the manufacture or formulation of this product.

Formaldehyde

Formaldehyde is not intentionally used in the manufacture or formulation of this product.

Melamine

Melamine is not intentionally used in the manufacture or formulation of this product.

Eposidised soyabean oil (ESBO)

Eposidised soyabean oil (ESBO) is not intentionally used in the manufacture or formulation of this product.

Primary Aromatic Amines (PAA)

Primary Aromatic Amines (PAA) is not intentionally used in the manufacture or formulation of this product.

Phthalates

The following phthalates are not intentionally used in the manufacture of or formulation of this product.

Substances	Cas No.
Butyl Benzyl Phthalate (BBP)	85-68-7
Dimethyl phthalate (DMP)	131-11-3
Diethyl phthalate (DEP)	84-66-2
Di-n-propyl phthalate (DPP)	131-16-8
Di-n-butyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5
Di-n-pentyl phthalate (DNPP)	131-18-0
Di-n-hexyl phthalate (DNHP)	84-75-3
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7
Di-n-octyl phthalate (DNOP)	117-84-0
Diisooctyl phthalate (DIOP)	27554-26-3
Diisononyl phthalate (DINP)	28553-12-0
Diisodecyl phthalate (DIDP)	26761-40-0

Bis(2-ethylhexyl)adipate (DEHA)

Bis(2-ethylhexyl)adipate (DEHA) is not intentionally used in the manufacture or formulation of this product.

Polycyclic Aromatic Hydrocarbons (PAHs)

The following polycyclic aromatic hydrocarbons (PAHs) are not intentionally used in the manufacture of or formulation of this product.

Substances	Cas No.
1,2-dihydro-acenaphthene	83-32-9
acenaphthylene	208-96-8
9H-fluorene	86-73-7
anthracene	120-12-7
benz(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
dibenz(a,h)anthracene	53-70-3
fluoranthene	206-44-0
fluorene	86-73-7
indeno(1,2,3-cd)pyren	193-39-5
naphthalene	91-20-3
phenanthrene	85-01-8
pyrene	129-00-0

Ozone Depleting Substance (ODS)

Chlorofluorocarbons (CFC's) and substances related to ozone depleting substances (as defined by the MONTREAL PROTOCOL and listed as class I & II substances by the US Clean Air Act) are not intentionally used in the manufacture of or formulation of this product.

Organotin Compounds

Tributyl-tin (TBT), dibutyl-tin (DBT), monobutyl-tin (MBT), Triphenyltin (TPT), Tributyltin oxide (TBTO) or any other organo-tin compounds are not used in the manufacture of or the formulation of this product.

Perfluorocarbon - Directive 2006/122/EC

Perfluorooctanic acid (PFOA), perfluoro-alkyl sulphonates (PFAS), or perfluorooctane sulfonates (PFOs) are not intentionally used in the manufacture of or formulation of this product.

Halogenated Flame Retardants

Polybrominated biphenyl (PBB), Polybrominated diphenyls (PBDE), Polychlorinated biphenyl (PCB), Polychlorinated terphenyls (PCT), Polychlorinated Naphthalene (PCN) and hexabromo cyclododecane (HBCDD) are not intentionally used in the manufacture of or formulation of this product.

Dioxins and Furans

Dioxins and furans are not intentionally used in the manufacture of or formulation of this product.

Vinyl Chloride Monomer (VCM) and Polyvinyl Chloride (PVC)

VCM and PVC are not intentionally used in the manufacture of or formulation of this product.

Styrene and Polystyrene (PS)

Styrene and Polystyrene (PS) are not intentionally used in the manufacture of or formulation of this product.

Natural rubber or Latex

Natural rubber or Latex are not intentionally used in the manufacture of or formulation of this product.

Genetically Modified Organism (GMO)

No GMOs, genetic material from GMOs, materials derived from GMOs, nor any genetically modified ingredients are not intentionally used in the manufacture of or formulation of this product.

Animal Derived Additives

Animal Derived Additives are not intentionally used in the manufacture of or formulation of this product.

Conflict Minerals

Gold (Au), Tantalum (Ta), Tin (Sn) and Tungsten (W) are not intentionally used in the manufacture of or formulation of this product.

Radioactive Substances

Radioactive Substances are not intentionally used in the manufacture of or formulation of this product.

Recycled Materials – Commission Regulation (EC) No 282/2008

Recycled Materials are not intentionally used in the manufacture of or formulation of this product.

6) Other standards**Halal**

We cannot certify this product to be Halal or in compliance with Halal requirements. However, this product does not use any animal derived materials.

Kosher

We cannot certify this product to be Kosher or in compliance with Kosher requirements. However, this product does not use any animal derived materials.

This certificate will be updated when appropriate. Therefore, we recommend the customers to ask for a new declaration periodically. It is the responsibility of the customer to check compliance of the final articles with the relevant legislation and applicable regulatory requirements including their restrictions.

For further information, please contact QA&QC Department.

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