

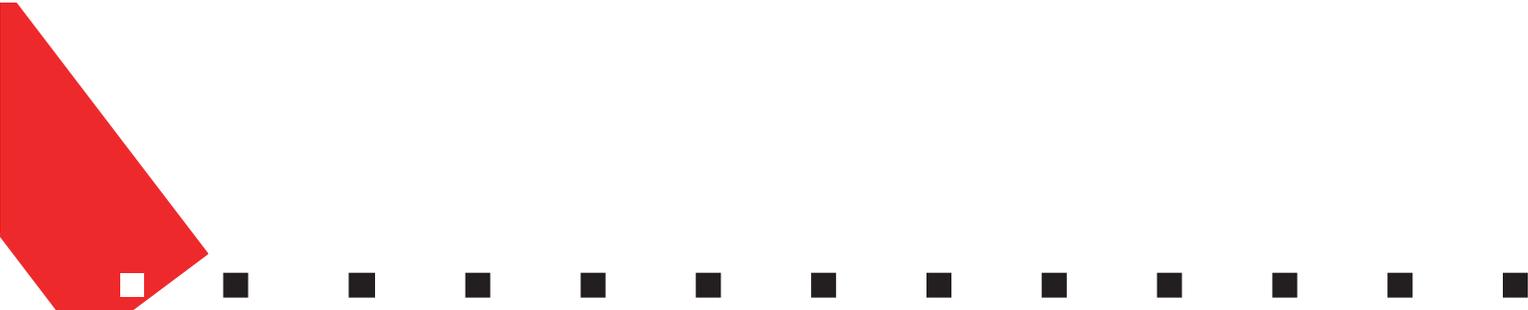


Custom[®]

INGREDIENTS, INC.



Phytol[™] – Natural Oils
Product Guide



Custom[®] **INGREDIENTS** is a leading producer of innovative and quality specialty chemical products for industry. We strive to provide attentive service and quick deliveries to our customers and a safe and enjoyable work environment for our employees. It is our goal to:

- To continue introducing creative and useful specialty chemical products that fulfill a special consumer need.
- To continue providing outstanding customer service and support for *Custom*[®] **INGREDIENTS**' products.
- To continue to manufacture our products in America, providing quality employment opportunities for American workers and faster response times for our customers.
- To continue *Custom*[®] **INGREDIENTS**' important roles in consumer innovation and industry leadership.
- To continue to invest in our company's future, by making decisions based upon long-term goals rather than short-term gain.
- To continue with our belief that *Custom*[®] **INGREDIENTS**' future success will be determined by how well we service and treat our customers today.
- To continue to always have skilled and competent people on our staff.
- To continue associating the *Custom*[®] **INGREDIENTS**' brand with quality, innovation and value.

Custom[®] **INGREDIENTS** specializes in quality seed, nut and vegetable oils. By importing directly from our worldwide sources to you, we can offer competitive pricing and consistent quality. Our oils are from renewable resources mindful of the environment. We sell exclusively to the cosmetic and personal care industry so we know the quality you demand. Our oils offer the best in clarity, color, and low odor and are certified to American Oil Chemist Society (AOCS) standards to provide you with a reliable and consistent source.

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Phytol™ Natural Oils

Nut & Seed Oils



Products Description	INCI Name	Uses / Benefits	Regulatory Status
Phytol™ ALS Almond (Sweet) Oil	Prunus Amygdalus Dulcis (Sweet Almond) Oil	Mimics the lipid content of the skin, the NMF (Natural Moisturizing Factor) and helps restore.	Japan: yes EU: yes
Phytol™ Argan** Argan Oil	Argania Spinosa Kernel Oil	This Moroccan oil possesses a remarkable ability to moisturize dry skin and improve skin elasticity and hair gloss.	Japan: yes EU: yes
Phytol™ BOR Borage Oil	Borago Officinalis Seed Oil	The high content of gamma linoleic acid (GLA) the fatty acid used in cosmetics as an emollient, antioxidant, and cell regulator. GLA is considered to promote healthy skin growth and is an anti-inflammatory agent. It can also provide relief from chronic skin disorders such as eczema and atopic dermatitis.	Japan: yes EU: yes
Phytol™ CAN** Canola Oil	Canola Oil	Non-greasy occlusive emollient, solvent, and low cost natural oil high in unsaturates. Canola has barrier-repair and anti-inflammatory properties	Japan yes EU: yes
Phytol™ Castor Castor Oil	Castor Oil	A viscous oil that is good for lipsticks, color cosmetics, hair glossers and good for pigment dispersions.	Japan yes EU: yes
Phytol™ Chardonnay Chardonnay Grape Seed Oil	Vitis Vinifera (Grape) Seed Oil	Grapeseed oil is very rich in vitamin E, which helps to promote healthy skin and muscles. It is also used as an additive to increase shelf life of other oils and slow down rancidity.	Japan: yes EU: yes
Phytol™ Chaul Chaulmoogra Oil	Hydnocarpus Kurzii (Chaulmoogra) Oil	Used in the treatment of over dried and skin conditions such as eczema and psoriasis. Used Historically in the treatment of leprosy, it is a natural antibiotic for skin infections.	Japan: yes EU: yes
Phytol™ Coffee Coffee Bean Oil	Coffea Arabica (Coffee) Oil	Coffee bean oil obtained from the beans of Coffea Arabica and used for color additive.	Japan: yes EU: yes
Phytol™ COCO** Coconut Oil	Cocos Nucifera (Coconut) Oil	Rich emollient for hair and skin. Occlusive tropical oil for rich emolliency.	Japan yes EU: yes
Phytol™ COT Cottonseed	Gossypium Herbaceum (Cotton) seed oil	Good for skin products and relatively stable low cost oil with good emollient properties.	Japan yes EU: yes
Phytol™ EPO Evening Primrose	Oenothera Biennis (Evening Primrose) Oil	Moisturizer for dry skin and good for skin renewal.	Japan yes EU: yes
Phytol™ GSO Grape Seed Oil	Vitis Vinifera (Grape) Seed Oil	Fast penetrating into the skin used in massage oils. Lower saturated fat than olive oil.	Japan yes EU: yes
Phytol™ JOJO** Jojoba Oil	Simmondsia Chinensis (Jojoba) Oil	Useful in cosmetics and industrial lubricants. Long chain lengths give it stability when heated.	Japan yes EU: yes
Phytol™ KUKUI Kukui Oil	Aleurites Moluccana Seed Oil	Skin care that leaves skin with a non-greasy feel. Non irritating to skin and eyes and has no known side effect.	Japan yes EU: yes
Phytol™ MAC Macadamia Oil	Macadamia Tetraphylla Seed Oil	Skin care, hair care, and this oil is high in unsaturates providing rich skin feel.	Japan yes EU: yes
Phytol™ MAIZE Corn Oil	Zea Mays (Corn) Oil	Skin care, emulsions and tremendous versatility. Maintains clarity in cold temperatures.	Japan yes EU: yes
Phytol™ NEEM Neem Oil	Melia Azadirachta Seed Oil	Has been used for centuries in India as a medicine to aid in healing of topical skin disorders such as rash, psoriasis, eczema, burns and acne.	Japan: yes EU: yes
Phytol™ PNUJ Peanut Oil	Arachis Hypogaea (Peanut) Oil	Used in variety of food, cosmetics, and industrial applications. Stable in cold temperatures and medium weight lubricating oil.	Japan yes EU: yes
Phytol™ Shea Oil Shea Oil	Butyrospermum Parkii (Shea Butter) Oil	Hair and skin products. Lip glosses and protective creams. A rich conditioner and moisturizer.	Japan: yes EU: yes
Phytol™ SAF-HO** Safflower Oil	Carthamus Tinctorius (Safflower) Seed Oil	Cosmetics, pharmaceuticals and industrial paints. Remarkably stable from oxidative rancidity. (High Oleic)	Japan yes EU: yes

** Also available in Certified Organic



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Nut & Seed Oils (Continued)



Products Description	INCI Name	Uses / Benefits	Regulatory Status
Phytol™ SES Sesame Oil	Sesamu Indicum (Sesame) Seed Oil	Skin care, hair conditioning agent, and quick absorbing into the skin.	Japan: yes EU: yes
Phytol™ SOY** Soybean Oil	Glycine Soja (Soybean) Oil	Cosmetics, pharmaceuticals and industrial paints. Lubricating oil and low cost emollient for skin.	Japan: yes EU: yes
Phytol™ SUN-HO** Sunflower Oil	Helianthus Annuus (Sunflower) Seed Oil	Recommended for use as an ingredient where high oxidative stability is needed. (High Oleic)	Japan: yes EU: yes
Phytol™ Tach Pistachio Oil	Pistacia Vera Seed Oil	Emollient plant oil with uses similar to peanut oil in cosmetics.	Japan: yes EU: yes
Phytol™ WAL Walnut Oil	Juglans Regia (Walnut) Seed Oil	Cosmetics, hair care products and lotions. Light, non-greasy.	Japan: yes EU: yes
Phytol™ WGO Wheat Germ Oil	Triticum Vulgare (Wheat) Germ Oil	Cosmetics, hair care products and lotions. Contains vitamin E.	Japan: yes EU: yes

Amazonion Oils



Products Description	INCI Name	Uses / Benefits	Regulatory Status
Phytol™ Andiroba Andiroba Oil	Carapa Guaianensis Seed Oil	This luxurious oil provides excellent cushion and helps to reduce moisture loss from the skin. Used as a natural insect repellent.	Japan: yes EU: yes
Phytol™ Annatto Urucum Oil	Bixa Orellana Seed Oil	Useful as a natural colorant and rich in carotenoids. It's a natural emollient for skin and its' carotenoids provide antioxidant effects to skin and promotes the conversion to Vitamin A.	Japan: yes EU: yes
Phytol™ Brazil Brazil Nut Oil	Bertholletia Excelsa Seed Oil	It's a luxurious oil that imparts shine and softness to the hair. Phytol™ Brazil renews dry lifeless hair and reduces split ends. It also provides excellent cushion and helps to reduce moisture loss from the skin.	Japan: yes EU: yes
Phytol™ Copaiba Copaiba Oil	Copaifera Officinalis Balsam Copaiba Resin	This is a powerful anti-inflammatory and film former and reduces moisture loss from the skin. It also exhibits anti-bacterial properties. It's resinous qualities imparts shine to the hair.	Japan: yes EU: yes
Phytol™ Cupuacu** Cupuacu Butter	Theobroma Grandiflorum Seed Butter	Highly beneficial for dry and damaged skin and hair, promoting deep, long lasting hydration. Effective substitute for lanolin.	Japan: no EU: yes
Phytol™ CL Croton Extract	Croton Lechleri Resin Extract	Commonly known as Amazon Dragon's blood (Sangre de Grado), this rich red latex dries quickly and forms a second skin to help reduce moisture loss from the skin, protect the skin from irritation, inhibit itching and promote healing of sensitive and dry skin.	EU: yes

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Phytol™ Natural Oils

Fruit & Plant Oils



Products Description	INCI Name	Uses / Benefits	Regulatory Status
Phytol™ Aloe Aloe oil extract	Aloe Barbadensis Leaf Extract	Hair, body, massage oils, skin care, sun tan oil, mositurizer and humectant for skin.	Japan: yes EU: yes
Phytol™ APR Apricot Oil	Prunus Armeniaca (Apricot) Kernel Oil	Massage oils and penetrating moisturizer, sometimes referred to as persic oil.	Japan: yes EU: yes
Phytol™ AVO** Avocado Oil	Persea Gratissima (Avocado) Oil	Non-greasy occlusive waxy emollient rich in vitamins A, C and E.	Japan yes EU: yes
Phytol™ Blk B Black Raspberry Seed Oil	Rubus Occidentalis (Black Raspberry) Seed Oil	Is a rich source of polyunsaturated fats including Omega 3 fatty acids and antioxidants. It supports a healthy immune system and it has anti-inflammatory and anti microbial properties.	Japan: yes EU: yes
Phytol™ CRAN Cranberry Seed Oil	Vaccinium Macrocarpon (Cranberry) seed oil	Is a rich source of Fatty acids and antioxidants for use in nutraceuticals, skin, and personal care. Also has properties of anti-inflammatory, antimicrobial and broad spectrum UV protection and emollience.	Japan: yes EU: yes
Phytol™ Karit Carrot Oil	Daucus Carota Sativa (Carrot) Root Extract	Useful in sun care and skincare products to maintain healthy skin. Rich in alpha- and beta-carotenoids.	Japan yes EU: yes
Phytol™ Meadowfoam Meadowfoam Seed Oil	Limnanthes alba (Meadowfoam) Seed Oil	Moisturizes the skin and hair. It helps dry, cracked lips and keeps them moist longer. It is an alternative to spermacetti wax.	Japan yes EU: yes
Phytol™ O** Olive	Olea Europaea (Olive) Fruit Oil	Skin care, hair care, and deep rich moisturizing oil.	Japan yes EU: yes
Phytol™ PAL** Palm Oil	Elaeis Guineensis (Palm) Oil	Used in soaps, detergents, and the most prominent fatty acid in palm is lauric.	Japan yes EU: yes
Phytol™ PINE Pine Oil	Pinus Plaustris Oil	Useful in cleaning preparations and degreasing. High terpene content.	Japan yes EU: yes
Phytol™ POM Pomegranate Oil	Punica Granatum Seed Oil	Pomegranate seed oil is commonly used to revitalize dull or mature skin, assist with wrinkles, and to soothe minor skin irritations. Recent studies have shown that pomegranate seed oil stimulates keratinocyte proliferation, promoting regeneration and strengthening of the epidermis.	Japan: yes EU: yes
Phytol™ Prune Prune Seed Oil	Prunus Domestica Seed Oil	This is a highly nourishing oil that helps prevent excess moisture loss and also combats fine lines. Prune oil is also rich in vitamins.	Japan: yes EU: yes
Phytol™ Pumpkin Pumpkin Seed Oil	Cucurbita Pepo (Pumpkin) Seed Oil	This nourishing oil helps prevent excess moisture loss and also combats fine lines. Pumpkin seed oil is believed to affect the androgen levels that are responsible for hair loss.	Japan: yes EU: yes
Phytol™ RAS Red Raspberry Seed Oil	Rubus Idaeus (Raspberry) Seed Oil	Red raspberry seed oil possesses an exceptionally high proportion of alpha and gamma tocopherols (Vitamin E), vitamin A and omega-3 and omega-6 fatty acids. In a study done on the properties of red raspberry seed oil, the oil showed absorbance in the UV-B and UV-C ranges suggesting that it may be useful as a broad spectrum UV protectant in skin care formulations.	Japan: yes EU: yes
Phytol™ RHO Rosehip Oil	Rosa Canina Fruit Oil	Rosehip oil reduces scar tissues, helps to prevent and reduce stretch marks, and attenuates wrinkles & age spots. It has a natural content of trans-retinoic acid for treatment of acne and sun damaged skin.	Japan yes EU: yes
Phytol™ Tea Tree Tea Tree Oil	Melaleuca Alternifolia (Tea Tree) Leaf Oil	Used as an antiseptic, anti-bacterial and medicated oil ingredient in cosmetics, and topical pharmaceutical products.	Japan: yes EU: yes

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Miscellaneous Oils



Products Description	INCI Name	Uses / Benefits	Regulatory Status
Phyto™ EGG Egg Oil	Ovum	Good conditioner for hair and skin. Mixture of nonpolar, polar lipids and cholesterol.	Japan: yes EU: yes
Phyto™ HEAT "Tingle" Oil Complex	Various	A blend of oleoresins and extracts containing Ginger oil, Capsicum, Cinnamon and Peppers and is used for skin tingle or fragrance component.	pending
Phyto™ Lanol Lanolin Oil	Lanolin Oil	Lanolin oil has an unequalled moisturizing and emollient action on skin and protection for environmental stresses.	Japan: yes EU: yes
CustoLan Lanolin USP	Lanolin	Lanolin has the unique physical property of increased adherence to dry skin to form a protective barrier.	Japan: yes EU: yes
Phyto™ Massage V-4 Oil Blend Massage complex	Various	Lightly emollient oil used in massage oils and fast penetrating into the skin. Rich in Vitamins, Omega-3 fatty acids and very heat stable.	pending
Phyto™ Rice Bran Rice Bran Oil	Oryza Sativa (Rice) Bran Oil	Rice bran oil is a light, moisturizing and is a good choice for formulations intended for delicate skin. Oryzanol present helps reduce the progression of hyper-pigmentation.	Japan: yes EU: yes
Phyto™ Tanning Oil Blend tanning oil complex	Various	A natural vegetable oil blend based on natural oleoresins and tocopherols to produce an enhanced bronzing and conditioning to the skin while indoor tanning.	pending

Butters



Products Description	INCI Name	Uses / Benefits	Regulatory Status
Custom CB Cocoa Butter	Theobroma Cacao (Cocoa) Seed Butter	Is helpful to prevent stretch marks. It has a low melting point but remains solid at room temperature.	Japan: yes EU: yes
Phyto™ HVO Vegetable Butter, Soft	Hydrogenated Vegetable Oil	Ideal pressing oil for hair and good skin conditioning agent. Good moisturizing properties.	Japan: yes EU: yes
Phyto™ PKO Palm Kernel Butter, Hard	Hydrogenated Vegetable Oil	It has an excellent oxidative stability and low irritation and bland taste. Also used in hair preparations for high gloss and moisture restoration. Ideal pressing oil for hair.	Japan: yes EU: yes
Phyto™ Shea** Shea Butter	Butyrospermum Parkii (Shea Butter)	Hair and skin products. Lip glosses and protective creams. A rich conditioner and moisturizer.	Japan: yes EU: yes
Custom SVO Soybean Butter, Hard	Hydrogenated Vegetable Oil	Can be used as a base for suppositories, ointments, sticks or glosses. It has an excellent oxidative stability and low irritation and bland taste. Also used in hair preparations for high gloss and moisture restoration. Ideal pressing oil for hair.	Japan: yes EU: yes

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Fatty Acid Composition

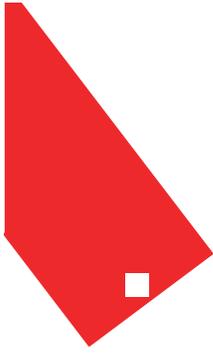
Phytol™ Natural Oils



Product Name	Palmitic Fatty Acid % 16:0	Stearic Fatty Acid % 18:0	Oleic Fatty Acid % 18:1	Linoleic Fatty Acid % 18:2	Linolenic Fatty Acid % 18:3	Other Fatty Acids
Phytol™ ALS	4-13	2-10	43-60	20-34		
Phytol™ Andiroba	26-29	8-9	50-55	9-10	0.3	
Phytol™ APR	5-6		58-59	29-33		
Phytol™ Argan	10-12	4-6	40-44	35-40	<0.5	
Phytol™ AVO	9-18		56-74	10-17	0-2	
Phytol™ BIK B	1.2-1.7	0.8	6.1-7.7	56-58	35-40	
Phytol™ BOR	0.4	2.6-5.0	14.6-21.3	36.5-40.1	17.1-25.4	
Phytol™ Brazil	14-16	6-10	30-48	30-45		
Phytol™ CAN	3-6	1-2	52-67	16-25	6-14	1%-3% arachidic 20:0
Phytol™ Castor	1-2	3-6	2-4	4-7	0-1	80%-90% ricinolic
Phytol™ Chardonnay	5-11	3-6	12-28	58-78		
Phytol™ Chaul	3-5		14-15			76% cyclopentic
Phytol™ CL	1	0.5	56	29		
Phytol™ COCO	8-10	2-4	5-8			45%-50% lauric 12:0
Phytol™ Coffee	35-42	7-11	8-10	36-43		
Phytol™ COT	21-26	2-3	15-22	47-58		
Phytol™ CRAN	5-8	1-2	20-25	35-45	22-35	
Phytol™ Cupuacu	7-8	30-31	43-45	4-6		11%-12% araquidic
Phytol™ EPO	6-10	1-3	5-12	65-80		
Phytol™ GSO	5-11	3-6	12-28	58-78		
Phytol™ HVO	90					saturated
Phytol™ JOJO	0-3		5-12			66%-74% eicosanoic 20:1 & 9%-19% erucic 22:1
Phytol™ Karit	(undefined)					
Phytol™ KUKUI	6-9		12-14	49-62	7-15	
Phytol™ MAC	12-15		55-62	4	1	
Phytol™ MAIZE	11-16	1-3	24-42	40-60		
Phytol™ Meadowfoam						98% over C 20
Phytol™ NEEM	13-18	14-24	49-62	7-15		
Phytol™ O	7.5-20		55-83	3.5-21		
Phytol™ PAL	40-46	4-6	36-41	10-13		
Phytol™ PINE	3-4	1-2	17-19	54-56	7-9	
Phytol™ PKO	7.1-10.0	1.3-3.0	11.9-19.3	1.4-3.3	0-0.7	
Phytol™ PNUT	8-14	1-4	36-67	14-43		2%-5% erucic 22:1
Phytol™ POM	3.1	6.5	8.2	0.3-0.4	14.3-14.8	
Phytol™ Prune	5-6		57-60	37-30		
Phytol™ Pumpkin	7-13	7-13	24-41	46-57		
Phytol™ RAS	2.4	1	11	54.2	29.7	
Phytol™ RHO	5-8	1-3	7-10	65-75	9-11	2% arachidic 20:0 & 2% eicosanoic 20:1
Phytol™ Rice Bran	2-18	0.5-3.0	40-50	29-42	1.1	
Phytol™ SAF-HO	5-6	1.5-2.0	74-80	13-18	0.2 (max)	
Phytol™ SES	8-10	4-6	36-42	41-48		
Phytol™ Shea	4-8	36-41	45-50	4-8		
Phytol™ Shea Oil	4-7	8-15	68-78	6-10	<0.5	
Phytol™ SOY	9-13	3-5	17-25	50-57	5-9	
Phytol™ SUN-HO	3-5	3-5	85+	3-2		
Phytol™ SVO	90					saturated
Phytol™ Tach	8-13	0.5-2.0	56-70	20-31	0.1-0.4	
Phytol™ WAL	7-8		17-19	56-60	13-14	
Phytol™ WGO	12-19		14-23	50-56	3-7	

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What does 'Certified Organic' mean? – 'Certified Organic' means that the item has been grown according to strict uniform standards that are verified by independent state or private organizations. Certification includes inspections of farm fields and processing facilities, detailed record keeping, and periodic testing of water and soil to ensure that growers and handlers are meeting the standards, which have been set.

Who regulates the certified organic claims? - Effective October 21, 2002, organic farmers and processors began to use the new USDA seal to indicate their adherence to the USDA's National Organic Program regulations. Some of the key USDA regulations: ⁽¹⁾ prohibit the use of pesticides and fertilizers; ⁽²⁾ prohibit the use of genetically modified organisms, irradiation, or sewage sludge, in organic production; ⁽³⁾ reflect NOSB recommendations concerning items on the national list of allowed synthetic and prohibited natural substances; ⁽⁴⁾ require verification from a USDA NOP approved certification agency. Finally, the term 'Organic', and these same stringent guidelines, have been adopted by the Personal Care and Cosmetics industries in order to provide USDA NOP certified & labeled products and formulas to an eager and rapidly growing consumer market segment.

What Claims can be made? - The USDA NOP program strictly defines four levels of Organic Claims that can be made based on the organic content calculated by weight (excluding water & salt) of the product or formula: ⁽¹⁾ Certified Organic Content % by weight (excluding water and salt)-the front panel claim is permitted use of the USDA Organic Seal if 100% of content is organic and the phrase, "100% Organic"; ⁽²⁾ Greater than 95% of content is organic – "Organic" may be printed on the product panel; ⁽³⁾ Greater than 70% of content is organic- the front product panel may display the phrase "Made with Organic" followed by the specific ingredients; ⁽⁴⁾ "Made with Organic Ingredients" products may not display the USDA Organic seal containing less than 70% of organic content, these products may only list those ingredients that are organic on the ingredient panel with no mention of organic on the main panel.

What does GMO mean? - A GMO is "an organism that has been modified by the insertion of DNA by human intention. It is usually DNA which has been modified or 'engineered' to suit a particular purpose (recombinant DNA is the same thing). The DNA can be from a foreign organism, from the same organism or it may be a sequence synthesized in a laboratory." GMOs are widely used today, yet we don't yet know what the environmental and health effects may be. Possible negative effects including food allergies, threats to beneficial insects, and genetic drift have already been documented. Some scientists are also concerned about the potential creation of 'superbugs' and 'superweeds' that may devastate future crops. The proliferation of GMOs is being driven by the desire to increase crop yields, increase resistance to pest and plant diseases, increase product shelf life, and to make food more attractive. Genetic modifications of food have been in development since the 1980's inciting heated argument pro and con. A variety of genetically modified crops has been approved by the FDA for general use, and it's reviewing an application to market genetically modified fish. The FDA has said labeling isn't necessary because there's no evidence genetic engineering changes a food's quality, safety, or "any other attribute"

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