

PRODUCT CATALOG



DeForest
SURFACTANTS
SOLUTIONS AT THE INTERFACE

INTRODUCTION

DeFOREST Enterprises, Inc. offers a diversified and comprehensive line of specialty surfactants and related products for a variety of end use applications. Our product portfolio is focused on differentiation as well as multi-functionality. We offer a unique line of products as follows:

- surfactants and wetting agents
- hydrotropes
- corrosion inhibitors
- metalworking lubricants
- specialty emulsifiers
- gelling agents
- environmentally sensitive chemistries

Our company remains committed to product innovation and developing unique products and solutions that are driven by our customer's changing needs. Our product line includes a variety of environmentally sensitive products that are readily biodegradable, low toxicity, and well-suited for use in eco-friendly products.

Research and innovation, collaboration with our customers, delivering high quality products and superior customer service are considered of key importance for the continued growth and success of DeFOREST Enterprises and our valued customers.



Central Research Lab, Boca Raton, Florida



Technical Service & Application Lab, Macedonia, Ohio

DeFOREST's corporate headquarters and central Research & Development laboratories are located in Boca Raton, Florida. To complement our central R&D location and to meet the needs of our growing customer base, a Technical Service & Application Laboratory was opened in 2011 and operates in Macedonia, Ohio. Our products are manufactured and distributed from our plants and warehouses strategically located in various industrial centers throughout North America including Delaware, Michigan, Minnesota, Ohio, Pennsylvania, Tennessee, and Texas.

~ Established 1980 ~

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We welcome your inquiries and the opportunity to meet your specialty surfactant needs. Please contact us at 561-994-9696 to inquire about surfactants not listed in our catalog.

DeCORE Series *Corrosion Inhibitors*

DeCORE corrosion inhibitors are water-soluble inhibitors used to protect various metals in applications such as metalworking fluids, metal cleaning, coolants, aerosol cans, and water-based systems where little-to-no foam is essential. Most are multifunctional and provide hydrotropic and wetting properties as well.

Additional DeForest products that provide corrosion protection include our phosphate esters such as DePHOS 8028, amphoteric including DeTERIC LP for acid corrosion inhibition, and DeTROPE CA-100 for aluminum corrosion inhibition. Information on these products can be found throughout this catalog or by requesting the associated technical bulletins.

Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Typical Properties & Applications
DeCORE APCI-95MOD	Clear, amber liquid	95.0%	Modified Carboxylate	Versatile, low foaming corrosion inhibitor for use on copper, brass, bronze, aluminum & other non-ferrous metals, galvanized, ferrous & cast iron. Stable in systems at pH >7.
DeCORE AFCI-45	Clear, amber liquid	45.0%	Modified Carboxylate	Low foaming, amine-free corrosion inhibitor effective on multi-metals including aluminum, steel, copper & brass. Free of azoles, nitrites, borates & phosphates. Effective at pH 7 -10 plus good flash-rust protection in moderately acidic pH ranges of 3.5 – 7.
DeCORE IDMT-100	Clear, amber, viscous liquid	99.0%	Modified Carboxylate	Low foaming, multi-metal corrosion inhibitor effective on yellow metals, aluminum, cast iron & steel. Free of azoles, nitrites, phosphates, & borates. For use in alkaline systems only.
DeCORE IMT-100LF	Clear, amber, viscous liquid	99.0%	Modified Carboxylate	Low foaming corrosion inhibitor effective at low levels. Recommended for use on cast iron & steel. Contributes lubricity, wetting & spreading properties. For use in alkaline systems only.
DeCORE BE DeCORE BE-85	Clear, almost colorless, viscous liquid	100.0% 85.0%	MEA-Borates & MIPA Borates	Non-foaming corrosion inhibitors for ferrous & non-ferrous metals. For use in alkaline systems only. Approved for use as inert in non-food pesticides.

DeIONIC Series *Nonionic Surfactants*

The DeIONIC series are unique, nonionic surfactants which offer excellent wetting, low foam, and a variety of cloud points. Suggested applications include paints and coatings, pigment grinding, low foaming alkaline and acid cleaners, and metalworking and metal cleaning products. DeIONIC C-18 is a high melt point, high MW ethoxylate and very well suited for solid block detergents.

Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Cloud Point*	HLB	Typical Properties & Applications
Modified Alcohol Alkoxylates and Alcohol Ethoxylates						
DeIONIC LF-60	Clear to hazy, colorless liquid	96.0%	Alcohol Alkoxylate	14 - 18°C	1.6	Low foam, wetting agent for use in pigment dispersions, grind aids, paints, coatings, alkaline & acid cleaners, & metalworking or metal cleaning applications. Minimal VOC content.
DeIONIC LF-80MOD	Clear to hazy, colorless liquid	94.0%	Modified Alcohol Alkoxylate	15 - 21°C	1.6	A unique nonionic delivering multifunctional properties including excellent dynamic surface tension reduction, wetting & very low foam. Properties & applications similar to DeIONIC LF-60 with a slightly higher cloud point. Low VOC.
DeIONIC 100-VLF	Clear to slightly hazy, colorless liquid	99.0%	Modified Alcohol Alkoxylate	<0°C	1.4	Properties and applications similar to DeIONIC LF-60 & LF-80MOD but virtually non-foaming. Approved for use as inert in non-food pesticides.
DeIONIC C-18	Off white flakes	100.0%	Alcohol Ethoxylate	>100°C	18.6	High melting point (58°C), biodegradable surfactant for use in solid & block formulations, water based lubricants & dry blended detergents. Approved for use as inert in non-food pesticides & also approved for use under 40CFR180.910, 180.930, 180.940 & 180.960.

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Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Cloud Point*	HLB	Typical Properties & Applications
Alcohol Alkoxylates						
DeIONIC LF-EP-15	Almost colorless, clear to hazy liquid	99.0%	Alcohol Alkoxylate	15°C	6.0	Biodegradable, low foaming, nonionic surfactants with cloud points ranging from 15°C - 61°C. Stable in alkaline & acid systems including dry caustic & electrolytes. Will not gel when added to water. Excellent detergents & wetting agents when applied at temperatures near their cloud point. Suggested for use in alkaline & acid high pressure cleaners, mechanical dishwashing detergents, metal cleaning, bottle wash, textile cleaning & scouring, agricultural sprays & laundry detergents. Approved for use as inert in non-food pesticides and also approved for use under 40CFR180.910 & 40CFR180.930.
DeIONIC LF-EP-25	Almost colorless, clear to hazy liquid	99.0%	Alcohol Alkoxylate	25°C	7.0	
DeIONIC LF-EP-40	Almost colorless, clear to hazy liquid	99.0%	Alcohol Alkoxylate	40°C	8.5	
DeIONIC LF-EP-61	Almost colorless, clear to hazy liquid	99.0%	Alcohol Alkoxylate	61°C	12.0	

*Cloud point is determined using 1.0% by weight of surfactant in distilled water.

DeMULS Series *Specialty Emulsifiers*

The DeMULS series is an exclusive group of specialty emulsifiers designed to produce micro and macro emulsions with D'Limonene and other solvents, oils, and esters.

Product Name	Minimum Activity	Appearance @ 25°C	Chemical Description	Typical Properties & Applications
DeMULS DLN-2314	95.0%	Clear to hazy amber liquid	Modified Complex Ethoxylate	Easy-to-use, DEA-free emulsifier for creating D'limonene microemulsions that remain clear upon dilution with water. Improved cold temperature handling. Approved for non-food inert use & for food inert use with limitations under 40CFR180.920 & 180.930.
DeMULS DLN-532CE MOD	95.0%	Clear, amber liquid	Modified Amino Propionate	D'limonene emulsifier used to produce microemulsions that remain clear upon dilution. Biodegradable & hard water stable. Approved for use as inert in non-food pesticides. Contains free-DEA.
DeMULS DLN-622EG	99.0%	Clear, amber, viscous liquid	Modified Amido Carboxylate	Forms clear D'limonene concentrates that bloom upon dilution with water. Used to prepare clear & opaque D'limonene gels. Approved for use as non-food inert. Contains free-DEA.
DeMULS KE-75	77.0%	Clear, pale yellow liquid	Ethoxylated Alcohol Ester	Emulsifier for kerosene, petroleum distillates & other solvents including dibasic esters. Moderate to high foaming, non-phenolic, readily biodegradable emulsifier recommended for use in degreasers, solvent based paint strippers, graffiti removers, & other industrial cleaning applications. DEA-free . Approved for use as inert in non-food pesticides.
DeMULS SGE-95	95.0%	Clear, amber liquid	Modified Ester	Emulsifier for soy, canola, & rapeseed methyl esters. Produces clear or opaque emulsions used as all-purpose degreasers, graffiti removers, & other industrial cleaners. Cost effective, readily biodegradable, & stable in mildly alkaline formulations. DEA free .

DePHOS Series *Phosphate Esters*

DePHOS phosphate esters are anionic surfactants that provide a variety of properties including wetting, detergency, hydrotrope, lubrication, and corrosion inhibition. Based on aliphatic or aromatic hydrophobes, they are supplied in the acid form or as neutralized salts. Suggested for use in metalworking and metal cleaning applications, oilfield applications, and industrial cleaning markets.

Product Name	Appearance @25°C	Minimum Activity	Hydrophobe	pH Range	Acid* Values	Typical Properties & Applications
DePHOS 8028	Clear to slightly hazy, almost colorless liquid	80.0%	Aliphatic	6.5 – 7.2 5% soln.	0/35 Max	Low to moderate foaming, outstanding wetting agent with alkaline & acid stability. Multi-metal corrosion inhibitor. For use as lubricant and emulsifier in metal working & textile applications.
DePHOS 8028FA	Clear to slightly hazy pale yellow liquid	99.0%	Aliphatic	<2.5 1% soln.	120/193	Free acid form of DePHOS 8028. For use as acid emulsifier, corrosion inhibitor, dispersant & wetting agent. Suggested for use in paints & adhesives.
DePHOS H-66-872	Clear, light yellow liquid	50.0%	Aromatic	8.0 -10.0 5% soln.	0/15 Max	Low foaming hydrotrope for nonionics & anionics in alkaline & acid systems.
DePHOS HP-739	Clear, amber, viscous liquid	99.0%	Aliphatic	< 2.5 1% soln.	220/315	Oil soluble, high phosphorous content ester for use as EP additive, lubricant, corrosion inhibitor, wetting agent & emulsifier in metal working applications. Becomes water soluble when neutralized with water soluble amines.

*Acid values represent the milligrams of KOH/per gram required to titrate to a pH of 5.0 - 5.5 and to a pH of 9.0 - 9.5

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The information and suggestions given are drawn from data we believe to be reliable, but in all cases the user should check and confirm the suggestions and results in his/her own use before proceeding further. DeFOREST Enterprises, Inc. offers no warranties other than to guarantee the products are manufactured to specifications and cannot assume any liability or risk involved in the use of our products since these conditions of use are beyond our control. None of the suggestions or recommendations constitute freedom from any patents that may be existent in the field or be issued.

Product Name	Appearance @ 25°C	Minimum Activity	Hydrophobe	pH Range	Acid* Values	Typical Properties & Applications
DePHOS 4AL	Clear, colorless to pale yellow liquid	98.0%	Aliphatic	< 2.5 10% soln.	155 – 170 (AVII)	Low – moderate foaming phosphate ester in free acid form. Suggested for use as a lubricant, corrosion inhibitor, and emulsifier in metal working applications. Very effective for aluminum machining applications.
DePHOS P-6LF-AS	Clear, viscous yellow liquid	99.0%	Aromatic	<2.5 10% soln.	170/310	Low foaming, water soluble lubricant & hydrotrope with excellent alkaline stability. Approved for use as inert in non-food pesticides. Low VOC.
DePHOS QSA-90	Clear, yellow, viscous liquid	75.0%	Aliphatic	< 2.5 1% soln.	150/280	Economical, moderate to high foaming detergent for use in alkaline & acid cleaners.
DePHOS RA-60	Clear, yellow, viscous liquid	99.0%	Aliphatic	< 2.5 10% soln.	110/175	Good emulsifying & hydrotrope properties. Due to excellent wetting properties, it is suggested for use in alkaline metal cleaners, high pressure steam cleaners & other institutional & industrial cleaners. Soluble in water and many solvents. Approved for use as inert in non-food pesticides.
DePHOS 717	Clear to hazy, viscous liquid	99.0%	Aromatic	< 2.5 10% soln.	60/90	High foaming, water-soluble phosphate ester recommended for use as an emulsifier, detergent, and corrosion inhibitor for industrial applications including oilfield.

*Acid values represent the milligrams of KOH/per gram required to titrate to a pH of 5.0 - 5.5 and to a pH of 9.0 - 9.5

DeTAINE/DeTERIC Series *Amphoteric Surfactants*

Amphoteric surfactants are cationic in acidic environments, anionic in alkaline conditions, and nonionic at their isoelectric/zwitterion range. They are generally used in combination with primary surfactants, and recommended for use in household, institutional, and industrial formulations. DeTERIC LP can also be used in personal care applications.

DeTAINE PB exhibits cationic behavior in the lower pH range and is zwitterionic throughout the rest of the pH range maintaining both a positive and negative charge. Betaines exhibit excellent stability across a wide pH range and are exceptional foam boosters and viscosity builders when used in combination with primary surfactants. DeTAINE PB can also be used in personal care applications.

Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Typical Properties & Applications
Amphoterics				
DeTERIC LP	Light yellow liquid	29.0%	Sodium Lauriminodipropionate INCI Name: Sodium Lauriminodipropionate	High foaming, salt-free surfactant with detergency, wetting, hydrotroping & emulsifying properties. Stable in strong alkali & acids. Good brine stability. Provides corrosion protection in strong acids & hard water . Recommended for high foaming industrial cleaning applications as well as mild, personal care products. Approved for use as inert in non-food pesticides. Readily biodegradable.
DeTERIC CP-Na-38	Clear, yellow liquid	37.0%	Sodium salt, Carboxylated C ₈₋₁₂ Modified Propionate	Similar to DeTERIC LP with higher foam, increased alkaline, acid & brine stability. Approved for use as inert in non-food pesticides. Readily biodegradable.
DeTERIC ODP-LF	Yellow liquid	49.0%	Sodium Octyliminodipropionate	Very low foaming, zero-VOC amphoteric with excellent alkaline & acid stability. Highly effective hydrotrope & also exhibits corrosion inhibition properties. Suggested for use in low foaming alkaline & acid cleaners, metalworking applications & oilfield products. Approved for use as inert in non-food pesticide formulations.

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Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Typical Properties & Applications
Amphoterics (Continued)				
DeTERIC CSP-50	Clear, almost colorless liquid	22.0%	Phosphated Amphoteric	For use in systems containing 50% active caustic soda & 45% active caustic potash. Provides low, quick breaking foam, detergency, wetting, & surface tension reduction. Maintains good color stability in highly caustic formulations. Hard water stable & biodegradable.
Betaines				
DeTAINE PB	Clear to slightly hazy, almost colorless, viscous liquid	20.0%	Palmitic betaine/ Cetyl betaine INCI Name: Cetyl Betaine	Odorless, colorless, ethanol-free betaine producing dense foam & unique viscosity building properties. Alkaline & acid stable. Can be used in germicidal cleaners without reducing germicidal properties of quaternary compounds. Suggested for use in acid or alkaline cleaners & personal care products. Approved for use as inert in non-food pesticides. Readily biodegradable.

DeTERGE Series *Alkaline & Acid Stable Specialties*

The DeTERGE LF series are multifunctional and used at typical concentrations of 1%-5% in low foaming, alkaline and acidic formulations. The DeTERGE LF series are excellent detergents and outstanding wetting agents. Several may be used as hydrotropes. All are biodegradable, non-phenolic and phosphate free.

DeTERGE CS-45LF, DeTERGE AT-100 and DeTERGE AN508-LF are specialty products designed for specific applications such as chlorinated systems, acid thickening/gelling and highly alkaline systems.

Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Typical Properties & Applications
DeTERGE LF Series				
DeTERGE LF-28	Clear, almost colorless liquid	48.5%	Modified Carboxylate	For use in formulated products containing 10% or less caustic and alkaline electrolytes. Not recommended for use in systems containing more than 5% trisodium phosphate. At 1% use level, exhibits excellent wetting properties with zero foam in up to 10% caustic. Not stable in acid systems. Approved for use as inert in non-food pesticides.
DeTERGE LF-531	Clear, amber liquid	54.0%	Modified Carboxylate	Similar properties to DeTERGE LF-28 but with increased caustic stability. Can be used at 1-3% in systems containing up to 20% active NaOH. Hydrotrope for nonionics in alkaline systems. Not as stable in sodium metasilicate as DeTERGE LF-28. At 1% use level, exhibits excellent wetting properties and very low foam in up to 20% caustic. Not stable in acid systems. Approved for use as inert in non-food pesticides.
DeTERGE LF-7315	Clear, amber liquid	54.0%	Modified Carboxylate	Exceptional stability at 1-3% use levels across a broad spectrum of concentrated acids, caustic (30-40%) & alkaline electrolytes. Not recommended for systems containing more than 5% sodium metasilicate or trisodium phosphate. Effective hydrotrope for nonionic surfactants in high caustic systems, low to moderate foam with good wetting. Stable in acid systems. Approved for use as inert in non-food pesticides.

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Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Typical Properties & Applications
DeTERGE Products				
DeTERGE AN508-LF	Yellow, slightly viscous liquid	51.0%	Complex Amphoteric	Low to moderate foaming surfactant having alkali & acid stability with good wetting properties. For use in low foam alkali & acid cleaners. Stable in up to 35% KOH. Approved for use as inert in non-food pesticides. Readily Biodegradable.
DeTERGE AT-100	Amber, semi-solid to paste	99.0%	Ethoxylated Complex Amine	Suggested as a thickening & gelling agent in acid systems. Provides detergency, wetting & is an outstanding emulsifier. Used in viscous bowl cleaners, acid pickling, vertical surface detergents, acid & corrosion inhibitors, emulsion cleaners & in down-hole oil field applications.
DeTERGE CS-45LF	Clear, almost colorless liquid	43.5%	Alkoxylated Carboxylate	A unique, economical low foaming, chlorine stable surfactant for use in alkaline systems only. Stable in 15% active caustic and alkaline electrolytes. Promotes detergency, wetting & offers excellent hard water stability. Biodegradable. Not stable in acid systems.
DeTERGE NAS	Clear, colorless to pale yellow liquid	33%	Modified Anionic	A low to moderate foaming, chlorine & peroxide stable surfactant for use in alkaline, acid and neutral systems. Provides detergency, wetting & solubilizing properties. Readily biodegradable. Approved for use as inert in non-food pesticides.

DeTROPE Series, *Hydrotropes*

The DeTROPE products are multifunctional, low foam hydrotropes recommended for use in a variety of applications including high alkaline cleaners, chlorinated caustic cleaners, metalworking products, aerosol systems, and other HI&I applications.

Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Typical Properties & Applications
DeTROPE CA-100	Clear, amber, viscous liquid	99.0%	Modified Carboxylate	Low foaming hydrotrope for use in liquid & powdered highly alkaline systems. Provides wetting and corrosion inhibition. Excellent corrosion inhibitor in aerosol cans & highly effective on aluminum . Biodegradable, hard water stable, non-phenolic & phosphate free. Not acid stable.
DeTROPE CA-90	Clear, amber, viscous liquid	90.0%	Modified Carboxylate	90% active version of DeTROPE CA-100. Remains liquid at temperatures above ~35F for easier handling.
DeTROPE SA-45	Clear, colorless to yellow liquid	44.0%	Sodium Alkanoate	Virtually non-foaming, non-phenolic, chlorine stable hydrotrope. Recommended for use in chlorine containing, high pressure alkaline cleaners, automatic dishwashing detergents, textile mercerizing and low foam spray VAC detergents. For use in alkaline systems only. Approved for use as inert in non-food pesticide formulations. Not acid stable. Readily biodegradable.

Additional products that also have excellent hydrotrope abilities include DeCORE AFCI-45, DeTERGE LF series, DePHOS 8028, and DeTERIC amphoteric surfactants DeTERIC LP, DeTERIC CP-Na-38, and DeTERIC ODP-LF.

Please contact us for recommendations on the best hydrotrope for your specific application.

Miscellaneous *Surfactants & Specialties*

DeCONC, DeMOX, DeSULF, DeTHOX

A variety of interesting and useful surfactants including several specialties are included in this section.

Product Name	Appearance @ 25°C	Minimum Activity	Chemical Description	Typical Properties & Applications
DeCONC Specialty Concentrate				
DeCONC I-100	Amber viscous liquid	99.0%	Amido Sulfonate Concentrate	Used to formulate high foaming, alkaline stable detergents. Dilutions up to 6:1 may be used to produce highly viscous liquid detergents, alkaline cleaners, dishwashing, & laundry compounds. Can be used for powdered products.
DeMOX Amine Oxides				
DeMOX CSG-30 ECO	Clear to hazy viscous liquid	30.0%	Modified Amine Oxide	Create clear, colorless gels & viscous liquids in the presence of sodium hypochlorite (alkaline systems) & hydrogen peroxide (acid systems). Excellent choice for vertical surface sanitizers & drain cleaners. Nonionic in alkaline systems & cationic in acid systems. Approved for use as an inert in non-food pesticides. Readily biodegradable.
DeSULF Alkyl Sulfate				
DeSULF SO-LF33	Clear, off white liquid	32.0%	Sodium Octyl Sulfate	Low to moderate foam wetting agent with caustic & chlorine stability. Used in alkaline cleaners, mechanical dishwashing detergents, high pressure spray metal cleaners, glass cleaners, & firefighting foams. Stable in mildly acidic cleaners & formulations containing hydrogen peroxide. Readily biodegradable.
DeTHOX Ethoxylated Alcohols & Amines				
DeTHOX AMINE C-15	Clear amber liquid	97% min	Ethoxylated Coconut Amine	Emulsifier, dispersant, lubricant & corrosion inhibitor. Suggested applications include water based industrial detergents, synthetic cutting fluids, & car wash drying aids.
DeTHOX TDA-8.5 15W	Clear liquid	83 - 86%	Tridecyl Alcohol Ethoxylate	High foaming detergent & emulsifier. Excellent wetting & solubilizing properties & recommended for a variety of alkaline or acid formulations. Contains 15% water for easy handling. Readily biodegradable.



2020 GREEN INITIATIVE

The following products are readily biodegradable, have low aquatic toxicity, and are well-suited for use in environmentally sensitive products.



- ❖ **DeTERIC LP & DeTERIC CP-Na-38:** High foaming amphoteric, excellent detergency, wetting, & foam stability in the presence of oil & grease. Both are excellent hydrotropes and 1,4 dioxane-free.
- ❖ **DeTROPE SA-45:** Chlorine stable hydrotrope offering very low, fast breaking foam & wetting. Does not contain 1,4-dioxane.
- ❖ **DeTAINE PB:** Alcohol-free palmitic betaine producing dense, creamy foam. No 1,4-dioxane residuals & excellent choice for personal care applications.
- ❖ **DeTERGE NAS:** Low to moderate foaming, anionic surfactant offering detergency, wetting, & hydrotroping properties. Stable in caustic, sodium hypochlorite, & hydrogen peroxide. Does not contain 1,4-dioxane.
- ❖ **DeMOX CSG-30 ECO:** Thickener for sodium hypochlorite or hydrogen peroxide. High foaming & free of 1,4-dioxane.
- ❖ **DeMULS KE-75:** Emulsifier for dibasic esters, kerosene, & other solvents.
- ❖ **DeMULS SGE-95:** Emulsifier for soy, canola, & vegetable esters/oils

NEW→ DeCORE AFCI-45: Amine-free corrosion inhibitor for cast iron, steel, aluminum & yellow metals. Does not contain nitrites, azoles, phosphorous, or boron, and no 1,4-dioxane residuals!

While the iguana enjoys the sunshine outside our Florida lab window, we are inside, focused on developing new and innovative readily biodegradable products!

