

PRODUCT GUIDE

APPLICATIONS AND FORMULATIONS



**FLORIDA
CHEMICAL
COMPANY, INC.**

d-Limonene is a very effective, naturally occurring, biodegradable solvent and degreaser, extracted from the peel of oranges. It is 100% natural, environmentally friendly, and non-toxic. Due to its attractive citrus aroma, versatility, and Generally Recognized As Safe (GRAS) by the FDA, d-Limonene can be used safely and effectively in a wide range of products.

Florida Chemical has two main grades of d-Limonene: technical grade and food grade.

Technical grade d-Limonene is greater than 94% pure and has a strong orange aroma.

Food grade d-Limonene is greater than 95% pure and has a mild orange aroma.

Cold Pressed Orange Oil is a food grade product that is used in the flavor and fragrance industry. This oil is an ingredient in fruit flavors and floral perfume blends. Cold Pressed Orange Oil contains over 90% d-Limonene. It is a common additive to many products requiring citrus fragrance because of the sweet and fresh notes of the product.

Citrus Burst® 1 is a concentrated blend of d-Limonene, citrus components, and surfactant. It is ideally suited for general purpose cleaners and degreasers, and it can be diluted with water to make stable, milky-white emulsions. It can also be used to formulate multiple household and industrial cleaning products and blends well with other ingredients to make more complex product formulations.

Citrus Burst® 2 is a concentrated blend of d-Limonene, citrus components, and surfactant. It has a high concentration of d-Limonene, making it better for applications requiring more solvent cleaning power. Citrus Burst® 2 is ideal for cleaning applications where a water rinse is required. Citrus Burst® 2 can be diluted with water at time of use or blended with other solvents to fine tune the formulation.



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Citrus Burst® 3 is a one-step answer for formulating clear industrial and household cleaners with high concentrations of water. The concentrated formulation is made with the latest plant-based surfactant technology. Products made with Citrus Burst® 3 can be tinted to any color. The product can be used as a starter or base to make a wide variety of household or industrial products.

Citrus Burst® 7 is a patented formulation of d-Limonene and natural, plant-derived esters. This product has high solvency and can be used for heavy-duty degreasing and industrial cleaning applications. It dries with little residue or can be rinsed with water. All components in Citrus Burst® 7 are Generally Recognized As Safe (GRAS) by the FDA.

Citrus Burst® 8 is a unique blend of vegetable esters, citrus terpenes, and surfactants. With its high flash point (>142°), it is ideal for parts cleaning and heavy degreasing applications. The product is very effective at removing crude oil, tar, and asphalt. It can be rinsed with water or diluted at the time of use to make a time release macroemulsion.

Citrus Burst® 100 is an industrial cleaner and degreaser made with plant-based solvents formulated with low VOC technology. This product penetrates heavy grease, oil, petroleum oil and can be diluted for degreasing, steam cleaning, and power washing. Its high flash point (201°F) makes the formula safe for parts cleaners. This product is certified as a Clean Air Solvent by the South Coast Air Quality Management District.

CITRUSoy® High Flash is a combination of d-Limonene and soy methyl ester with a flash point greater than 140°F, making it ideal for parts washing and general degreasing applications requiring a non-flammable solvent.

CITRUSoy® Super High Flash is a solvent based on soy methyl ester with a light citrus fragrance. It is ideal for applications requiring a flash point greater than 200°F. It is a slow evaporating solvent with excellent penetrating characteristics. This product has been awarded Design for the Environment recognition by the US-EPA.

Florida Chemical also offers **surfactants**, such as E-Z-Mulse®. E-Z-Mulse® is a proprietary surfactant package to emulsify d-Limonene, orange oil, and other terpenes in water. Other custom surfactants are available that are designed to address specific environmental and product performance requirements.

