Natural Solubilizer

Cheat Sheet



What Is the Ingredient?

How the Ingredient Works

How to Use the Ingredient

Product Quick Facts

Unicorn Body Spray Recipe



What Are Solubilizers?

Some things just don't go together: like oil and water. If you make a recipe using essential oils and water, the essential oils will float to the top; or in some cases, sink to the bottom. But sometimes we want them to mix together to make things like lotions or room sprays. With lotions we use almost equal parts water and oil. To make these mix together, we use an emulsifying wax. Room sprays have a lot of water and a little oil in them. For this type of recipe we use solubilizers. As the name suggests, a solubilizer is an ingredient that helps make an insoluble ingredient soluble. When something is water soluble it means that it can be dissolved in water. Solubilizers are widely used in natural cosmetics as they help dissolve essential oils in mostly water formulations. A solubilizer is a surface-active molecule or surfactant. Surfactants have both water-loving and oil-loving traits, which means that they are able to connect the divide between oil and water.





Benefits of Solubilizers

Even Dispersion of Essential Oils

When making a room spray or body spray, the essential oils will separate from the water and the creator is asked to shake the product before using.

This works okay, but results in an uneven application of the oils. With each spray of the DIY product, you'll get different amounts of essential oils.

With a solubilizer, the essential oils are dispersed homogeneously to create a new, even mixture. The oils become diluted in the water and even application of the DIY product is possible. You won't have to shake the DIY product before using it.

Improve Product Safety

If a solubilizer isn't used in a product like a body spray, different amounts of oil will be sprayed each time it's used. This is okay if the essential oil is first diluted in a carrier oil. But you'll still get uneven application. If the essential oil is not first diluted, the essential oil will be unevenly applied and can cause skin irritation.

Benefits of Solubilizers

Improve Product Appearance & Use

Without a solubilizer, a layer of oil will be separated from the water. This can make the product look unfinished or unprofessional. Not having to shake it beforehand also makes the product easier to use.

Simply Earth's Natural Solubilizer

There are different types of solubilizers you can use, but some of them work better than others and vary in how natural they are. Simply Earth's Natural Solubilizer is made from ingredients that occur in nature. It's easy to use, is gently on the skin, and adds cleaning properties to DIYs.



Tips

Some essential oils naturally contain a color, like German Chamomile Essential Oil which has a beautiful green color. When using a solubilizer, your recipe will take on the color of the essential oil. When used properly, a recipe containing German Chamomile Essential Oil will be clear with a green tint.

With solubilizers, you usually have to do some experimenting to get the right amount of solubilizer for your recipe. A good rule of thumb is to use as little as possible but as much as necessary.



Our natural solubilizer is also a surfactant. Because of this, you may notice some foam at the top of your DIY product. This will eventually settle out. Try to avoid shaking up your mixture as it will cause your product to bubble up again.

If you don't end up with 100% solubilized essential oils results, you can still use your product. However, you'll need to shake it before using it to help disperse the un-solubilized essential oil.

Recipe

Here's an example of a recipe you could make using Simply Earth's natural solubilizer.

Unicorn Body Spray Recipe

Dilution Rate: 3%



Ingredients

- Simply Earth 10mL spray bottle
- 6 drops Unicorn Essential Oil Blend
- 60 drops (~½ tsp) Natural Solubilizer
- 2 tsp distilled water
- 1 drop Geogard ECT preservative

Instructions

1. In a small bowl mix together Unicorn Essential Oil Blend and solubilizer.
2. Slowly add 2 tsp of distilled water to the mixture while stirring.
3. Pour the mixture into the spray bottle. A small funnel is helpful.
4. To use, spray onto yourself for a light perfume.

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INGREDIENT

Quick Facts

Natural Solubilizer

INCI: Caprylyl/Capryl Glucoside

Benefits:

Dilutes essential oils into water for even dispersion in water based products. Also acts as a surfactant with clensing properties.

Recipes:

Bug sprays, body sprays, linen sprays, gels, toners, and cleansers.



How to Use:

Start with a 1:1 ratio to essential oils and stir. Add more solubilizer until a uniform mixture is reached (up to a 10:1 ratio). Slowly add mixture to water while stirring.

Recommended Use:

1-10% of total recipe.

Appearance:

Viscous, pale yellow.

Odor:

Faint, soap-like.

Shelf Life & Storage:

Store in a cool, dark, and dry space. Expected shelf life is 2 years.

Safety:

Generally considered safe, external use only.