

# DATASHEET/ SPECIFICATION

## LYSOLECITHIN POWDER (PULVER)

### Names

Other names:	hydrolyzed, de-oiled and powdered soy lecithin
INCI name:	lysolecithin
CAS No.:	85711-58-6
EINECS/EC No.:	288-318-8

### Application

For information about the origin, nature, content and use of lecithin, please see our General Information Sheet Soy Lecithin”.

Lysolecithin Powder (Pulver) is a hydrolyzed and deoiled lysolecithin in powdered shape. In this product the naturally occurring ratio between the different phosphorous lipids and glycosides typically found in soy beans are adhere. Lysolecithin is a special derivate of lecithin in which one fatty acid is replaced by an OH-group. This exchange of a fatty acid by a free OH-group result in much better emulsifying and dispersion properties in aqueous media compared to standardised lecithin. In formulations this means more water is bonded and you get a better skin touch. Also the disliked effects of long life fat films and “Stopping” move to a moisturized and silky skin sense.

Another plus is the much lighter yellow colour and the easier handling of the powdered shape of Lysolecithin Powder (Pulver) in comparison to the very viscous brown liquid of standard-lecithin. Furthermore this product tended to build up micelles which make lysolecithin a suitable co-emulsifier for o/w preparations with high water content.

Despite the fact that it is oil free, we suggest to apply it in the fat phase at temperatures between 60 to 80 °C. With intensive stirring while giving fat phase to water phase you can get stable formulation without lumps. The use of an additional dosage of Lysolecithin Powder (Pulver) in cold condition in case of instable emulsions or addition of sensitive natural oil is no problem anyway. The application concentration of 0.5 to 5 % strongly depends on the dimension of the fat phase, the texture of the fat/oil and the use or absence of gel builder in the formulation. Lysolecithin itself has no texturing properties it is a pure emulsifier.

## Composition

Acetone insolubles: min. 95 %

Moisture: max. 2 %

Oil: max. 3 %

Phosphatidylcholine (PA): min. 12 %

Lyso -phosphatidylcholine: min. 5 %

Fatty acids total: app. 50 %

Saturated fatty acids: 23 – 26 %

Monounsaturated fatty acids: 6 – 11 %

Polyunsaturated fatty acids: 62 – 68 %

Linoleic acid: 56 – 60 %

Linolenic acid: 6 – 8 %

## Analytical data

Peroxide Value: max. 3

Acid value: max. 30

Nutritional value: 9000 kcal/kg (37000 kJ/kg)

Particle size: min. 90 % is smaller than 0.315 nm

Microbiology: total plant count: :max. 1000/g

Yeasts: max. 50/g

Moulds: max. 50/g

Enterobacteriaceae: negative/ 0.1 g

Salmonellae: negative/ 25 g

## Physical and chemical properties

Physical state: solid (powder)

Colour: yellow

Odour: typical (not dominant lecithin)

pH: 6 – 7 (1 % dest. aqueous solution)

Solubility: dispersible in water, soluble in fats/oils and partly soluble in ethanol

Last revision: July 27<sup>th</sup> 2009

## Certification

NON GMO: Lysolecithin Powder (Pulver) derived from conventional soybeans and certified as NON GMO product

Kosher: brave  
Halal: approved

## Regulatory status

Lysolecithin Powder (Pulver) corresponds with E 322 (EC Regulation) for food additives: lecithins, and is generally recognized as safe (GRAS, Title 21 CFR Part 184.1036: enzymatically hydrolyzed lecithin.)

## Storage

Due to its hygroscopic nature and light sensitivity Lysolecithin Powder (Pulver) should be stored in its dry environment at a original packaging until use. The shelf life is 24 months when kept in a temperature range of 15°C-30°C (59°F-86°F). Re-close packaging immediately after opening.

## Other Information

All orders and samples requested will be sent together with an Analysis Certificate. Material Safety Data Sheet is available upon request.

All information contained here are intended to be accurate. However we suggest prior laboratory test before industrial process.

This Information and our technical application advice occur to the best of knowledge, but it's for information only and without responsibility.

The advice doesn't exempt you from doing your own testing particularly with regard to the qualification of our products for intends process and purposes.

Application, use and handling of our products take place out of our control possibility, and are only your responsibility. The Sales of our products occur according as current general sales terms and delivery conditions.