

## TECHNICAL DATASHEET

### Cosphaderm® SF-75 H

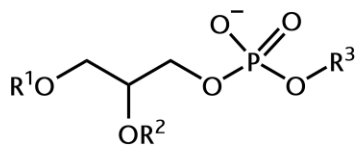
#### 1.1 General information

Trade name:	Cosphaderm® SF-75 H
Item no.:	05-007-xxxx
Supplier:	Cosphatec GmbH Hopfenmarkt 33 20354 Hamburg Germany
Chemical name:	Hydrogenated Lecithin
Other names:	Fractionated and hydrogenated de-oiled, powdered lecithin
INCI name:	Hydrogenated Lecithin
CAS No.:	92128-87-5
EINECS/ EC No.:	295-786-7
IECIC:	Hydrogenated Lecithin

#### 1.2 Product composition

INCI name	CAS No.
Hydrogenated Lecithin	92128-87-5

### 1.3 Chemical structure



R<sup>1</sup>, R<sup>2</sup>: Fatty Acids such as  
 Myristic Acid (14:0)  
 Palmitic Acid (16:0)  
 Stearic Acid (18:0)

R <sup>3</sup>	Name
	Phosphatidylcholin
	Phosphatidylethanolamin
	Phosphatidylinositol
-	Phosphatidic Acid

### 1.4 Product short description

Cosphaderm® SF-75H is a fractionated and hydrogenated, de-oiled sunflower lecithin in powdered shape (PC content min 70 %). The hydrogenation of double bonds in the fatty acids results in a higher stability towards destructive oxidation and much better emulsifying and dispersion properties in aqueous media compared to common fractionated lecithin. More in detail, Cosphaderm® SF-75 H creates very stable interfaces due to the compact structure. This makes hydrogenated lecithin the “first choice” emulsifier in case of formation of micelles and liposomes. It is also an excellent co-emulsifier and emulsifier for o/w as well as w/o emulsions.

Cosphaderm® SF-75 H can be applied in both the fat and the water phases. The applied emulsification temperature can be up to 80 °C. More or less wide is also the suggested application concentration of 0.5 to 6 %, which strongly depends on the dimension of the fat phase, the texture of the fat/oil and the use or absence of gel builder and other emulsifiers in the formulation as well as the desired skin conditioning effect.

### 1.5 Application

Recommended concentration: 3 % if applied as solo emulsifier  
 0.5-1 % if applied as co-emulsifier

Conditions: soluble in oil between 60-70° C we recommend not to heat lecithin above 70° C for longer time periods  
 dispersible in water (allow swelling)

Hints: if applied in the oil phase emulsions tend to form mixed o/w, w/o systems  
 o/w character can be achieved by mixing the hydrogenated lecithin with water and allow swelling for several minutes, then applying the mixture in the water phase

## 2.1 Specified data analyzed per batch

Appearance:	powder
Color:	white to yellowish
Phosphatidylcholine:	min. 70 %
Lyso-phosphatidylcholine:	max. 6 %
Water:	max 2 %
Ethanol:	max. 0.5 %
Iodone value:	max. 3 g I <sub>2</sub> /100g

## 3.1 Physical and chemical properties

Appearance:	white to yellowish powder
Odour:	characteristic, faint
Solubility:	soluble in oil, dispersible in water

## 3.2 Packing and Storage conditions

Packing sizes:	5 kg and 25 kg aluminium bags
Storage conditions:	15°-25° C. Keep closed in original packaging, away from sunlight and moisture or extreme temperatures.
Shelf life:	At least 24 month if unopened and stored under proper conditions

## 4.1 Regulatory compliance

Hydrogenated Lecithin (CAS: 92128-87-5) is included/listed in the following international inventories: EINECS (Europe); IECSC (China); AICS (Australia); NZIoC (New Zealand)

## 4.2 Regulatory status for cosmetic application

Product complies with Regulation (EU) No. 1223/2009 in all the defined requirements.

### 4.3 Additives

Product contains only the specified ingredients. No other substances like preservatives, antioxidants, fragrances, colorants or other are added.

### 4.4 Impurities

	Not expected*	Present <sup>#</sup>	ppm
BSE/TSE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Dioxin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Formaldehyde	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Gluten	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Lactose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Pesticides	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Phthalates	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Residual solvents	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ethanol: < 5000 Hexane < 1
Heavy metals	ppm		
	total	≤ 10	

### 4.5 Allergens

Product does not contain any of the 26 allergenic flavors or fragrances listed in Regulation (EC) No. 1223/2009 Annex III.

### 4.6 VOC

Product does not contain any additional volatile organic compounds.

#### 4.7 CMR

Product is not rated as CMR (category 1A, 1B and 2) and does not contain any ingredient rated as CMR according to Regulation (EC) No. 1223/2009 in association with Regulation (EC) No. 1272/2008/EC.

#### 4.8 SVHC

Product is neither listed as SVHC substances nor contains any material with is listed as SVHC substance.

#### 4.9 Nanomaterial

Product is not embraced by article 16 Regulation (EC) No. 1223/2009.

#### 4.10 Animal testing

The Cosphatec has not conducted any animal testing for cosmetic purpose since March 11<sup>th</sup> 2009.

#### 4.11 Irradiation

Product has not been irradiated in any step of the entire production process.

#### 4.12 Origin

Substances (INCI name)	Synthetic	Vegetal	Biotechnology
Hydrogenated Lecithin	<input type="checkbox"/>	<input checked="" type="checkbox"/> Name of the plant: Sunflower Plant part used: seeds Origin: Mainly East Europe	<input type="checkbox"/> Microorganism used:

#### 4.13 GMO

The product is not subject to labelling according to Regulations (EC) No. 1829/2003 and 1830/2003.

## 4.14 Certifications

COSMOS

ECOCERT

### Other Information

This information and our technical application advice are given to the best of our knowledge, but they are for information purposes only and given without responsibility. The advice doesn't exempt you from doing your own testing, particularly with regard to the qualification of our products for its intended processes and purposes. Application, use and handling of our products take place out of our control and are solely your responsibility. The sale of our products occurs according to our current general sales terms and delivery conditions.

\* not expected to be present due to raw materials, production process and used equipment. Not regularly analysed.

#expected to be present due to raw materials, production process and used equipment. Periodically analysed.