

PHOENOMENON

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BIOGEL® VLHS

(INCI: Dimer Dilinoleyl Dimer Dilinoleate (and)
Triisostearin (and) Hydroxystearic Acid)

BIOGEL VLHS is a 100% active 100% vegetable-derived gel. It is composed of Dimer Dilinoleyl Dimer Dilinoleate (and) Triisostearin (and) Hydroxystearic Acid.

It can be described as a vegetable-based petrolatum. **BIOGEL VLHS** spreads easily on skin resulting in a glossy emollient non-tacky coating. It is useful in lip gloss and foundation products and where occlusive moisturization are desired. **BIOGEL VLHS** is sustainable, biodegradable, and environmentally friendly. It is generally soluble in esters and oils but not soluble in silicones or water.

Trade Name	INCI Name	CAS#
	Dimer Dilinoleyl Dimer	
	Dilinoleate (and) Triisostearin	378789-58-3,
BIOGEL VLHS	(and) Hydroxystearic Acid	26942-95-0, 106-14-9
PELEMOL DD	Dimer Dilinoleyl Dimer	378789-58-3
	Dilinoleate	
PELEMOL GTIS	Triisostearin	26942-95-0
PHOENATE HSA	Hydroxystearic Acid	106-14-9

BIOGEL VLHS is REACH and China compliant.

TYPICAL PROPERTIES

(Not to be taken as Specifications)

Appearance @ 25°C	Clear to hazy firm gel
Color, Gardner	1
Acid Value, mg KOH/gm	4
Saponification Value, mg KOH/gm	125
Ref. Index @ 58°C	1.4750
Melting point, °C	42
@36°C	Starting to solidify
@33°C	Soft gel
@30°C	Hard gel
Viscosity @ 58°C	
LVT #1 @ 12 rpm, Cps.	200

SOLUBILITY

WATER	i
PROPYLENE GLYCOL	i
ETHANOL 200 Proof	i
MINERAL OIL	m
ISODODECANE	m
ISOPROPYL MYRISTATE (PELEMOL IPM)	m
CASTOR OIL	m
CYCLOMETHICONE (DC 345)	i
DIMETHICONE (DC 200-100CST)	i
ISONONYL ISONONANOATE (PELEMOL IN-2)	m
PENTAERYTHRITYL TETRAETHYLHEXANOATE (PELEMOL PTO)	m

i = insolublem = miscible (all %'s)

SAFETY

*RIPT Study (50 human subjects) conclusions follow:		
SKIN IRRITATION	NON-PRIMARY IRRITANT	
SKIN SENSITIZATION	NON-PRIMARY SENSITIZER	

BIOGEL VLHS can be considered for use in Hypoallergenic products.

09/18/2017

^{*} Studies conducted by AMA Labs, 216 Congers Rd., New City, NY 10956