

SECTION 1: Identification**1.1. Identification**

Product form : Mixture
 Trade name : Retinol Youth Renewal Serum
 Product code : 1016-56

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cosmetics

1.3. Supplier

Murad, LLC
 2121 Park Place, 1st Floor
 El Segundo, CA 90245
 T (310) 726-0600
www.murad.com

1.4. Emergency telephone number

Emergency number : (310) 726-0600

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Not classified

2.2. GHS Label elements, including precautionary statements**GHS US labeling**

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Name	Product identifier	Conc.	GHS US classification
Dimethicone	(CAS-No.) 63148-62-9	<5	Eye Irrit. 2A, H319
Dodecane	(CAS-No.) 112-40-3	<5	Flam. Liq. 4, H227 STOT SE 3, H335 Asp. Tox. 1, H304
PEG-100 Stearate	(CAS-No.) 9004-99-3	≤1	Comb. Dust
Phenoxyethanol	(CAS-No.) 122-99-6	<1	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Eye Irrit. 2A, H319
Silica	(CAS-No.) 7631-86-9	<1	Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 1A, H350 (Loose powder <10um particles only; not applicable to this product) STOT RE 1, H372
Glycerin	(CAS-No.) 56-81-5	<1	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Retinol	(CAS-No.) 68-26-8	<1	Ox. Gas 1, H270 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
Disodium EDTA	(CAS-No.) 139-33-3	<1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Comb. Dust
Laureth-23	(CAS-No.) 9002-92-0	<1	Acute Tox. 4 (Oral), H302
Ethylhexylglycerin	(CAS-No.) 70445-33-9	≤0.1	Eye Dam. 1, H318 Aquatic Chronic 3, H412

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	Conc.	GHS US classification
Alcohol	(CAS-No.) 64-17-5	<0.01	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 (NOTE: Alcoholic beverages only; not applicable to this product) Repr. 1A, H360 STOT SE 3, H335 STOT SE 3, H336 STOT RE 1, H372 STOT RE 2, H373 Aquatic Acute 2, H401
Geraniol	(CAS-No.) 106-24-1	<0.0001	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If affected person feels unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If affected person is experiencing breathing difficulty, allow affected person to breathe fresh air. Allow affected person to rest.
- First-aid measures after skin contact : If adverse skin reaction occurs, remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

5.2. Specific hazards arising from the chemical

- Fire hazard : Not flammable.
- Explosion hazard : Product is not explosive.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clear up spills immediately and dispose of waste safely.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep container closed to avoid product contamination.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silica (7631-86-9)	
US IDLH (mg/m ³)	3000 mg/m ³
NIOSH REL (TWA) (mg/m ³)	6 mg/m ³
Glycerin (56-81-5)	
Remark (ACGIH)	URT irr
OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (mist, total particulate) 5 mg/m ³ (mist, respirable fraction)
Titanium Dioxide (13463-67-7)	
ACGIH TWA (mg/m ³)	10 mg/m ³
Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust)
US IDLH (mg/m ³)	5000 mg/m ³
NIOSH REL (TWA) (mg/m ³)	2.4 mg/m ³ (CIB 63-fine) 0.3 mg/m ³ (CIB 63-ultrafine, including engineered nanoscale)
Sodium Hydroxide (1310-73-2)	
ACGIH Ceiling (mg/m ³)	2 mg/m ³
OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
US IDLH (mg/m ³)	10 mg/m ³
NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³
US-NIOSH chemical category	SK: DIR(COR) Apr 2011
Urea (57-13-6)	
WEEL TWA (mg/m ³)	10 mg/m ³
Alcohol (64-17-5)	
ACGIH STEL (ppm)	1000 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA PEL (TWA) (ppm)	1000 ppm
US IDLH (ppm)	3300 ppm (10% LEL)
NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
NIOSH REL TWA [ppm]	1000 ppm
Limonene (5989-27-5)	
WEEL TWA [ppm]	30 ppm
BHT (128-37-0)	
ACGIH TWA (mg/m ³)	2 mg/m ³
Remark (ACGIH)	URT irr
ACGIH chemical category	Not Classifiable as a Human Carcinogen
NIOSH REL (TWA) (mg/m ³)	10 mg/m ³

8.2. Appropriate engineering controls

Environmental exposure controls : Avoid release to the environment.

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

None needed.

Hand protection:

None needed

Eye protection:

None needed

Skin and body protection:

None needed

Respiratory protection:

None needed

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous emulsion
Color	: Yellowish
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Product is stable.

10.3. Possibility of hazardous reactions

Stable.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Smokes. Carbon monoxide. Carbon dioxide.

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Water (7732-18-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	201 ml/kg
ATE US (oral)	201000 mg/kg body weight
Dimethicone (63148-62-9) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 24 g/kg
Dodecane (112-40-3) (Historical information; not tested on animals for cosmetics)	
LC50 Inhalation - Rat [ppm]	> 142 ppm (Exposure time: 8 h)
Isopropyl Palmitate (142-91-6) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 5 g/kg
Propanediol (504-63-2) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	15.8 g/kg
LD50 dermal rabbit	> 20 g/kg
LC50 Inhalation - Rat	> 5 mg/l/4h
ATE US (oral)	15800 mg/kg body weight
PEG-100 Stearate (9004-99-3) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	53 ml/kg
ATE US (oral)	53000 mg/kg body weight
Phenoxyethanol (122-99-6) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	1850 mg/kg
LD50 dermal rat	14422 mg/kg
LD50 dermal rabbit	5 ml/kg
LC50 Inhalation - Rat	> 0.057 mg/l (Exposure time: 8 h)
ATE US (oral)	1850 mg/kg body weight
ATE US (dermal)	5000 mg/kg body weight
ATE US (dust, mist)	0.05 mg/l/4h
Caprylic/Capric Triglyceride (65381-09-1) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5000 mg/kg
Silica (7631-86-9) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	7900 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 2.08 mg/l/4h
ATE US (oral)	7900 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h
Glycerin (56-81-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10 g/kg
LC50 Inhalation - Rat	> 2.75 mg/l/4h
ATE US (oral)	12600 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h
Retinol (68-26-8) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	2 g/kg
ATE US (oral)	2000 mg/kg body weight
Polysorbate 20 (9005-64-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	37000 mg/kg
ATE US (oral)	37000 mg/kg body weight
Disodium EDTA (139-33-3) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	2 g/kg
ATE US (oral)	2000 mg/kg body weight

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Laureth-23 (9002-92-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	1 g/kg
ATE US (oral)	1000 mg/kg body weight
Titanium Dioxide (13463-67-7) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 10000 mg/kg
Butylene Glycol (107-88-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	18610 mg/kg
LC50 Inhalation - Rat [ppm]	> 60 ppm (Exposure time: 8 h)
ATE US (oral)	18610 mg/kg body weight
Sodium Hydroxide (1310-73-2) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	325 mg/kg
LD50 dermal rabbit	1350 mg/kg
ATE US (oral)	325 mg/kg body weight
ATE US (dermal)	1350 mg/kg body weight
Urea (57-13-6) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	8471 mg/kg
ATE US (oral)	8471 mg/kg body weight
Taurine (107-35-7) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 700 mg/kg
ATE US (oral)	500 mg/kg body weight
Glucose (50-99-7) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	25800 mg/kg
ATE US (oral)	25800 mg/kg body weight
Alcohol (64-17-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	7060 mg/kg
LC50 Inhalation - Rat	124.7 mg/l/4h
ATE US (oral)	7060 mg/kg body weight
ATE US (vapors)	124.7 mg/l/4h
ATE US (dust, mist)	124.7 mg/l/4h
Citronellol (106-22-9) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	3450 mg/kg
LD50 dermal rabbit	2650 mg/kg
ATE US (oral)	3450 mg/kg body weight
ATE US (dermal)	2650 mg/kg body weight
Tris(Tetramethylhydroxypiperidinol) Citrate (220410-74-2) (Historical information; not tested on animals for cosmetics)	
ATE US (oral)	500 mg/kg body weight
Silica Dimethyl Silylate (68611-44-9) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	0.45 mg/l/4h
ATE US (vapors)	0.45 mg/l/4h
ATE US (dust, mist)	0.45 mg/l/4h
Yellow 5 (1934-21-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 2000 mg/kg
Alpha-Isomethyl Ionone (127-51-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Hydroxycitronellal (107-75-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5 g/kg
Potassium Sorbate (590-00-1) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	3200 mg/kg
ATE US (oral)	3200 mg/kg body weight

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium Hyaluronate (9067-32-7) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 800 mg/kg
Limonene (5989-27-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg
ATE US (oral)	4400 mg/kg body weight
Red 4 (4548-53-2) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 2 g/kg
BHT (128-37-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 2930 mg/kg
LD50 dermal rat	> 2000 mg/kg
Pentylene Glycol (5343-92-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	12700 mg/kg
ATE US (oral)	12700 mg/kg body weight
BHA (25013-16-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	2 g/kg
ATE US (oral)	2000 mg/kg body weight
Linalool (78-70-6) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	2790 mg/kg
LD50 dermal rabbit	2000 mg/kg
ATE US (oral)	2790 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight
Geraniol (106-24-1) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5 g/kg
ATE US (oral)	3600 mg/kg body weight
Benzyl Benzoate (120-51-4) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	500 mg/kg
LD50 dermal rabbit	4000 mg/kg
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	4000 mg/kg body weight
Eugenol (97-53-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	1930 mg/kg
ATE US (oral)	1930 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Titanium Dioxide (13463-67-7) (NOTE: Unbound, airborne, respirable particles only; not applicable to this product)	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information

12.1. Toxicity

Isopropyl Palmitate (142-91-6) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
Phenoxyethanol (122-99-6) (Historical information; not tested on animals for cosmetics)	
LC50 fish 2	≥ 366 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Silica (7631-86-9) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
Glycerin (56-81-5) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	> 5000 mg/l
Retinol (68-26-8) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	316.23 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
Disodium EDTA (139-33-3) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	320 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
Sodium Benzotriazolyl Butylphenol Sulfonate (92484-48-5) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	420 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
Sodium Hydroxide (1310-73-2) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Urea (57-13-6) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	16200 – 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)
EC50 Daphnia 1	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Alcohol (64-17-5) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	12 – 16 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	> 2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Potassium Sorbate (590-00-1) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	1250 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	750 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Limonene (5989-27-5) (Historical information; not tested on animals for cosmetics)	
LC50 fish 2	> 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Pentylene Glycol (5343-92-0) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	> 1096 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
Linalool (78-70-6) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Geraniol (106-24-1) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
Benzyl Benzoate (120-51-4) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
Eugenol (97-53-0) (Historical information; not tested on animals for cosmetics)	
LC50 fish 1	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])

12.2. Persistence and degradability

Not established.

12.3. Bioaccumulative potential

Phenoxyethanol (122-99-6) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	1.13 (at 25 °C)
Silica (7631-86-9) (Historical information; not tested on animals for cosmetics)	
BCF fish 1	(no bioaccumulation expected)

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Glycerin (56-81-5) (Historical information; not tested on animals for cosmetics)	
BCF fish 1	(no bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	-1.76
Urea (57-13-6) (Historical information; not tested on animals for cosmetics)	
BCF fish 1	< 10
Partition coefficient n-octanol/water (Log Pow)	-1.59 (at 25 °C)
Alcohol (64-17-5) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-0.32
BHT (128-37-0) (Historical information; not tested on animals for cosmetics)	
BCF fish 1	230 – 2500
Partition coefficient n-octanol/water (Log Pow)	4.17
Linalool (78-70-6) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.1 (at 25 °C)
Benzyl Benzoate (120-51-4) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	4

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

Not regulated as hazmat for transport

Transportation of Dangerous Goods

Not regulated as hazmat for transport

Transport by sea

Not regulated as hazmat for transport

Air transport

Not regulated as hazmat for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product is not subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

Canada-Regulations

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

U.S. - California - Proposition 65: Titanium Dioxide (13463-67-7)					
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	No significance risk level (NSRL)	Maximum allowable dose level (MADL)
Yes (NOTE: Unbound, airborne, respirable particles only; not applicable to this product)	No	No	No		

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S. - California - Proposition 65: Alcohol (64-17-5)					
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	No significance risk level (NSRL)	Maximum allowable dose level (MADL)
Yes (NOTE: Alcoholic beverages only; not applicable to this product)		No	No		

Component	State or local regulations
Phenoxyethanol (122-99-6)	U.S. - Pennsylvania - RTK (Right to Know) List
Silica (7631-86-9)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Glycerin (56-81-5)	U.S. - New Jersey - Right to Know Hazardous Substance List
Retinol (68-26-8)	U.S. - Massachusetts - Right To Know List
Titanium Dioxide (13463-67-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
BHT (128-37-0)	U.S. - New Jersey - Right to Know Hazardous Substance List
Alcohol (64-17-5)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Sodium Hydroxide (1310-73-2)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Soybean oil (8001-22-7)	U.S. - Pennsylvania - RTK (Right to Know) List
BHA (25013-16-5)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Massachusetts - Right To Know List

SECTION 16: Other information

Data sources : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H-phrases listed in Section 2 & Section 3:

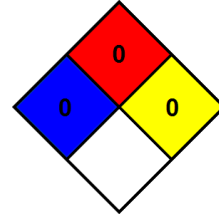
- H225 Highly flammable liquid and vapor
- H227 Combustible liquid
- H270 May cause or intensify fire; oxidizer
- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H330 Fatal if inhaled
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H340 May cause genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- H361 Suspected of damaging fertility or the unborn child
- H372 Causes damage to organs through prolonged or repeated exposure
- H373 May cause damage to organs through prolonged or repeated exposure
- H401 Toxic to aquatic life
- H402 Harmful to aquatic life
- H412 Harmful to aquatic life with long lasting effects
- H413 May cause long lasting harmful effects to aquatic life

Retinol Youth Renewal Serum

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.



SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.