

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Revitalixir Recovery Serum
 Product code : DPM307

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

Flammable liquids Category 4 H227 Combustible liquid

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Signal word (GHS US) : Warning
 Hazard statements (GHS US) : H227 - Combustible liquid
 Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P370+P378 - In case of fire: Use media other than water to extinguish.
 P403+P235 - Store in a well-ventilated place. Keep cool.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local regulations.

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
Glycerin	(CAS-No.) 56-81-5	<10	Acute Tox. 4 (Inhalation:dust,mist), H332
Alcohol	(CAS-No.) 64-17-5	<5	Flam. Liq. 2, H225 Aquatic Acute 2, H401
PEG/PPG-17/6 Copolymer	(CAS-No.) 9003-11-6	<1	Acute Tox. 2 (Inhalation:dust,mist), H330
Phenoxyethanol	(CAS-No.) 122-99-6	<1	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Eye Irrit. 2, H319
Hydroxyethylcellulose	(CAS-No.) 9004-62-0	<1	Comb. Dust
Titanium Dioxide	(CAS-No.) 13463-67-7	<1	Carc. 2, H351 (NOTE: Unbound, airborne, respirable particles only; not applicable to this product)
Caffeine	(CAS-No.) 58-08-2	<1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332

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

Revitalixir Recovery Serum

Safety Data Sheet

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

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. Sand.

5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible liquid.
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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep container closed to avoid product contamination. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible products	: Strong bases. Strong acids.

Revitalixir Recovery Serum

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glycerin (56-81-5)	
Remark (ACGIH)	URT irr
OSHA PEL (TWA) [1]	15 mg/m ³ (mist, total particulate) 5 mg/m ³ (mist, respirable fraction)
Alcohol (64-17-5)	
ACGIH OEL STEL [ppm]	1000 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
OSHA PEL (TWA) [1]	1900 mg/m ³
OSHA PEL (TWA) [2]	1000 ppm
IDLH [ppm]	3300 ppm (10% LEL)
NIOSH REL (TWA)	1900 mg/m ³
NIOSH REL TWA [ppm]	1000 ppm
t-Butyl Alcohol (75-65-0)	
ACGIH OEL TWA [ppm]	100 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
OSHA PEL (TWA) [1]	300 mg/m ³
OSHA PEL (TWA) [2]	100 ppm
IDLH [ppm]	1600 ppm
NIOSH REL (TWA)	300 mg/m ³
NIOSH REL TWA [ppm]	100 ppm
NIOSH REL (STEL)	450 mg/m ³
NIOSH REL STEL [ppm]	150 ppm
Titanium Dioxide (13463-67-7)	
ACGIH OEL TWA	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) [1]	15 mg/m ³ (total dust)
IDLH	5000 mg/m ³
NIOSH REL (TWA)	2.4 mg/m ³ (CIB 63-fine) 0.3 mg/m ³ (CIB 63-ultrafine, including engineered nanoscale)
Mica (12001-26-2)	
ACGIH OEL TWA	0.1 mg/m ³ (respirable particulate matter)
IDLH	1500 mg/m ³ (containing <1% quartz)
NIOSH REL (TWA)	3 mg/m ³ (containing <1% Quartz-respirable dust)
Iron Oxides (1309-37-1)	
ACGIH OEL TWA	5 mg/m ³ (respirable particulate matter)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
OSHA PEL (TWA) [1]	10 mg/m ³ (fume) 15 mg/m ³ (total dust (Rouge)) 5 mg/m ³ (respirable fraction (Rouge))
IDLH	2500 mg/m ³ (dust and fume)
NIOSH REL (TWA)	5 mg/m ³ (dust and fume)
Sodium Hydroxide (1310-73-2)	
ACGIH OEL Ceiling	2 mg/m ³
OSHA PEL (TWA) [1]	2 mg/m ³
IDLH	10 mg/m ³
NIOSH REL (Ceiling)	2 mg/m ³
US-NIOSH chemical category	SK: DIR(COR) Apr 2011
Urea (57-13-6)	
WEEL TWA	10 mg/m ³

Revitalixir Recovery Serum

Safety Data Sheet

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

Isopropyl Alcohol (67-63-0)	
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	400 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
BEI (BLV)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific)
OSHA PEL (TWA) [1]	980 mg/m ³
OSHA PEL (TWA) [2]	400 ppm
IDLH [ppm]	2000 ppm (10% LEL)
NIOSH REL (TWA)	980 mg/m ³
NIOSH REL TWA [ppm]	400 ppm
NIOSH REL (STEL)	1225 mg/m ³
NIOSH REL STEL [ppm]	500 ppm
Cellulose (9004-34-6)	
ACGIH OEL TWA	10 mg/m ³
OSHA PEL (TWA) [1]	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
NIOSH REL (TWA)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Tin Oxide (18282-10-5)	
NIOSH REL (TWA)	2 mg/m ³

8.2. Appropriate engineering controls

Environmental exposure controls : Avoid release to the environment.

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	: Gel with particles
Color	: Clear with purple particles
Odor	: Fragranced
Odor threshold	: No data available
pH	: 6.5 – 7.5
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
Density	: 0.9 – 1.1 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available

Revitalixir Recovery Serum

Safety Data Sheet

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

Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: 8,500 – 11,500 cP
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.

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
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
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
Niacinamide (98-92-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE US (oral)	3500 mg/kg body weight
Pentylene Glycol (5343-92-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	12700 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 7015 mg/m ³ (Exposure time: 4 h)
ATE US (oral)	12700 mg/kg body weight
Caprylic/Capric Triglyceride (73398-61-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 1.86 mg/l (Exposure time: 6 h)

Revitalixir Recovery Serum

Safety Data Sheet

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

Alcohol (64-17-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	7060 mg/kg
LC50 Inhalation - Rat	133.8 mg/l/4h
ATE US (oral)	7060 mg/kg body weight
ATE US (vapors)	133.8 mg/l/4h
ATE US (dust, mist)	133.8 mg/l/4h
Denatonium Benzoate (3734-33-6) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	584 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	0.2 mg/l/4h
ATE US (oral)	584 mg/kg body weight
ATE US (vapors)	0.2 mg/l/4h
ATE US (dust, mist)	0.2 mg/l/4h
t-Butyl Alcohol (75-65-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	2200 mg/kg
LD50 dermal rabbit	> 2 g/kg
LC50 Inhalation - Rat [ppm]	> 10000 ppm/4h
ATE US (oral)	2200 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
PEG/PPG-17/6 Copolymer (9003-11-6) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	16 g/kg
LC50 Inhalation - Rat	320 mg/m ³ (Exposure time: 4 h)
ATE US (oral)	16000 mg/kg body weight
ATE US (vapors)	0.32 mg/l/4h
ATE US (dust, mist)	0.32 mg/l/4h
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)	5547 mg/kg body weight
ATE US (dust, mist)	0.05 mg/l/4h
Sodium Hyaluronate (9067-32-7) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 800 mg/kg
Titanium Dioxide (13463-67-7) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 10000 mg/kg
LC50 Inhalation - Rat	5.09 mg/l/4h
ATE US (vapors)	5.09 mg/l/4h
ATE US (dust, mist)	5.09 mg/l/4h
Caffeine (58-08-2) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	367.7 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	4.94 mg/l/4h
ATE US (oral)	367.7 mg/kg body weight
ATE US (vapors)	4.94 mg/l/4h
ATE US (dust, mist)	4.94 mg/l/4h
Carrageenan (9000-07-1) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	5400 mg/kg
ATE US (oral)	5400 mg/kg body weight
Algin (9005-38-3) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5 g/kg

Revitalixir Recovery Serum

Safety Data Sheet

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

Synthetic Fluorphlogopite (12003-38-2) (Historical information; not tested on animals for cosmetics)	
LC50 Inhalation - Rat	> 5 mg/l/4h
Iron Oxides (1309-37-1) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 10000 mg/kg
Sodium Lactate (72-17-3) (Historical information; not tested on animals for cosmetics)	
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 7.94 mg/l/4h
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
Sodium Acetate (127-09-3) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	3530 mg/kg
LD50 dermal rabbit	> 10 g/kg
LC50 Inhalation - Rat	> 30 g/m ³ (Exposure time: 1 h)
ATE US (oral)	3530 mg/kg body weight
Sodium Lauryl Sulfate (151-21-3) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	1288 mg/kg
LD50 dermal rabbit	200 mg/kg
LC50 Inhalation - Rat	> 3900 mg/m ³ (Exposure time: 1 h)
ATE US (oral)	1288 mg/kg body weight
ATE US (dermal)	200 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h
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
Isopropyl Alcohol (67-63-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	1870 mg/kg
LD50 dermal rabbit	4059 mg/kg
LC50 Inhalation - Rat [ppm]	> 10000 ppm (Exposure time: 6 h)
ATE US (oral)	1870 mg/kg body weight
ATE US (dermal)	4059 mg/kg body weight
Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate (6683-19-8) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 10250 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 Inhalation - Rat	> 1.95 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
Caprylyl Glycol (1117-86-8) (Historical information; not tested on animals for cosmetics)	
LC50 Inhalation - Rat	> 7.015 mg/l/4h
Cellulose (9004-34-6) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5800 mg/m ³ (Exposure time: 4 h)
Potassium Sorbate (24634-61-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	3200 mg/kg
ATE US (oral)	3200 mg/kg body weight
Tin Oxide (18282-10-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	700 mg/kg
LC50 Inhalation - Rat	> 2.04 mg/l/4h
ATE US (oral)	700 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h
Tocopherol (59-02-9) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 7000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Revitalixir Recovery Serum

Safety Data Sheet

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

Ascorbic Acid (50-81-7) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	11900 mg/kg
ATE US (oral)	11900 mg/kg body weight
Skin corrosion/irritation	: Not classified pH: 6.5 – 7.5
Serious eye damage/irritation	: Not classified pH: 6.5 – 7.5
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
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.

SECTION 12: Ecological information

12.1. Toxicity

Glycerin (56-81-5) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	> 5000 mg/l
Niacinamide (98-92-0) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	> 1000 mg/l (Exposure time: 96 h - Species: <i>Poecilia reticulata</i> [static])
Pentylene Glycol (5343-92-0) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	> 1096 mg/l (Exposure time: 96 h - Species: <i>Danio rerio</i> [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: <i>Oncorhynchus mykiss</i> [static])
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static])
EC50 - Crustacea [2]	> 2 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> [Static])
t-Butyl Alcohol (75-65-0) (Historical information; not tested on animals for cosmetics)	
EC50 - Crustacea [2]	4607 – 6577 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> [Static])
Phenoxyethanol (122-99-6) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [2]	≥ 366 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static])
Caffeine (58-08-2) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	151 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [flow-through])
Iron Oxides (1309-37-1) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	100000 mg/l (Exposure time: 96 h - Species: <i>Danio rerio</i> [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: <i>Oncorhynchus mykiss</i> [static])
Sodium Acetate (127-09-3) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: <i>Danio rerio</i> [semi-static])
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i>)
Sodium Lauryl Sulfate (151-21-3) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	15 – 18.9 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static])
EC50 - Crustacea [1]	1.8 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i>)
LC50 - Fish [2]	8 – 12.5 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [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: <i>Poecilia reticulata</i>)
EC50 - Crustacea [1]	3910 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> [Static])
Isopropyl Alcohol (67-63-0) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	9640 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [flow-through])
EC50 - Crustacea [1]	13299 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i>)
LC50 - Fish [2]	11130 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static])

Revitalixir Recovery Serum

Safety Data Sheet

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

Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate (6683-19-8) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
Caprylyl Glycol (1117-86-8) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	2.2 – 22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
Potassium Sorbate (24634-61-5) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	1250 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 - Crustacea [1]	750 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Tin Oxide (18282-10-5) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

12.2. Persistence and degradability

Not established.

12.3. Bioaccumulative potential

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
Alcohol (64-17-5) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-0.32
t-Butyl Alcohol (75-65-0) (Historical information; not tested on animals for cosmetics)	
BCF - Fish [1]	1.09
Partition coefficient n-octanol/water (Log Pow)	0.35
Phenoxyethanol (122-99-6) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	1.13 (at 25 °C)
Caffeine (58-08-2) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-0.07
Sodium Acetate (127-09-3) (Historical information; not tested on animals for cosmetics)	
BCF - Fish [1]	< 10
Sodium Lauryl Sulfate (151-21-3) (Historical information; not tested on animals for cosmetics)	
BCF - Fish [1]	(will not bioconcentrate)
Partition coefficient n-octanol/water (Log Pow)	1.6
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)
Isopropyl Alcohol (67-63-0) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	0.05 (at 25 °C)
Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate (6683-19-8) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	23 (at 25 °C)

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.

Revitalixir Recovery Serum

Safety Data Sheet

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

SECTION 14: Transport information

Department of Transportation (DOT)

Exempted from Hazmat classification per 49 CFR 173.150(e) (Aqueous solution, <24% ethanol)

Transportation of Dangerous Goods

Exempted from Hazmat classification (Aqueous solution, <24% ethanol)

Transport by sea

Exempted from Hazmat classification per IMDG chapter 3.3.1 #144 (Aqueous solution, <24% ethanol)

Air transport

Exempted from hazmat for transport IATA Special Provision A58 (Aqueous solution, <24% ethanol)

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		

Component	State or local regulations
Glycerin (56-81-5)	U.S. - New Jersey - Right to Know Hazardous Substance List
Phenoxyethanol (122-99-6)	U.S. - Pennsylvania - RTK (Right to Know) 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
t-Butyl Alcohol (75-65-0)	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
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
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
Mica (12001-26-2)	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
Iron Oxides (1309-37-1)	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
Carrageenan (9000-07-1)	U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

Revitalixir Recovery Serum

Safety Data Sheet

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

Component	State or local regulations
Tin Oxide (18282-10-5)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Massachusetts - Right To Know List
Isopropyl Alcohol (67-63-0)	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
Cellulose (9004-34-6)	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

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.

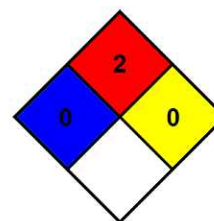
Full text of H-phrases listed in Section 2 & Section 3:

H225	Highly flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H310	Fatal in contact with skin
H315	Causes skin irritation
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
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

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 : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)

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.

Safety Data Sheet (SDS), USA

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.