Biome-Balancing Clear & Prevent Acne Treatment Serum

Safety Data Sheet

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

Issue date: 08/16/2024

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : Biome-Balancing Clear & Prevent Acne Treatment Serum

Product code : 1208-10

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cosmetics

Restrictions on use : OTC Acne Product

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
Glycerin	(CAS-No.) 56-81-5	<5	Acute Tox. 4 (Inhalation:dust,mist), H332
Salicylic Acid	(CAS-No.) 69-72-7	≤1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:dust,mist), H331 Eye Dam. 1, H318
Glutamic Acid	(CAS-No.) 56-86-0	<1	Comb. Dust

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.

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.

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

Glycerin (56-81-5)	
Remark (ACGIH)	URT irr
OSHA PEL TWA	15 mg/m³ (mist, total particulate) 5 mg/m³ (mist, respirable fraction)

Sodium Hydroxide (1310-73-2)	
ACGIH OEL Ceiling	2 mg/m³
OSHA PEL TWA	2 mg/m³
IDLH	10 mg/m³
NIOSH REL (Ceiling)	2 mg/m³
US-NIOSH chemical category	SK: DIR(COR) Apr 2011

Urea (57-13-6)	
WEEL TWA	10 mg/m³

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	:	Translucent gel
Color	:	Blue green to green
Odor	:	Characteristic
Odor threshold	:	No data available
pH	:	3.5 – 4.5
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	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Density	:	1.01 – 1.05 g/cm³
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	:	4,000 – 14,000 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	> 90 ml/kg (Source: FOOD_JOURN)

Propanediol (504-63-2) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	15.8 g/kg (Source: EPA_HPV)
LD50 dermal rabbit	> 20 g/kg (Source: NLM_HSDB)
LC50 Inhalation - Rat	> 5 mg/l/4h
ATE US (oral)	15800 mg/kg body weight

Mandelic Acid (90-64-2) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	4100 mg/kg
ATE US (oral)	4100 mg/kg body weight

Glycerin (56-81-5) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	12600 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 10 g/kg (Source: NLM_CIP)
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

Pentylene Glycol (5343-92-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	12700 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA)
LC50 Inhalation - Rat	> 7015 mg/m³ (Exposure time: 4 h Source: ECHA_API)
ATE US (oral)	12700 mg/kg body weight

Dimethicone (9006-65-9) (Historical information; not tested on animals for cosmetics)	
LD50 dermal rat	> 2008 mg/kg (Source: NLM_HSDB)

Sodium Hydroxide (1310-73-2) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	325 mg/kg (Source: OECD_SIDS)
LD50 dermal rabbit	1350 mg/kg (Source: NLM_HSDB)

Salicylic Acid (69-72-7) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	891 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2 g/kg (Source: NLM_HSDB)
LC50 Inhalation - Rat	> 900 mg/m³ (Exposure time: 1 h Source: NLM_CIP)
ATE US (oral)	891 mg/kg body weight
ATE US (dust, mist)	0.5 mg/l/4h

Glutamic Acid (56-86-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 30 g/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)

Butylene Glycol (107-88-0) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	18610 mg/kg (Source: NLM_CIP)
LC50 Inhalation - Rat [ppm]	> 60 ppm (Exposure time: 8 h Source: EPA_HPV)
ATE US (oral)	18610 mg/kg body weight

Tetrasodium Glutamate Diacetate (51981-21-6) (Historical information; not tested on animals for cosmetics)	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 4.2 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

Melia Azadirachta Leaf Extract (84696-25-3) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	> 5000 mg/kg (Source: EC_RAR)
LD50 dermal rat	> 2000 mg/kg (Source: EU_CLH)
LC50 Inhalation - Rat	> 0.72 mg/l/4h

Melia Azadirachta Leaf Extract (84696-25-3) (Historical information; not tested on animals for cosmetics)	
ATE US (dust, mist)	0.5 mg/l/4h

Citric Acid (77-92-9) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	3 g/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg (Source: EU_CLH)
ATE US (oral)	3000 mg/kg body weight

Urea (57-13-6) (Historical information; not tested on animals for cosmetics)	
LD50 oral rat	8471 mg/kg (Source: NLM_CIP)
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 (Source: EFSA)
ATE US (oral)	500 mg/kg body weight

Skin corrosion/irritation : Not classified pH: 3.5 – 4.5

Serious eye damage/irritation : Not classified pH: 3.5 – 4.5

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

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] Source: ECHA)

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] Source: IUCLID)

Salicylic Acid (69-72-7) (Historical information; not tested on animals for cosmetics)	
EC50 - Crustacea [1]	870 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Glutamic Acid (56-86-0) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static] Source: ECHA)

Tetrasodium Glutamate Diacetate (51981-21-6) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)

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] Source: ECHA)

Trisodium citrate (68-04-2) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	18000 – 32000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata Source: IUCLID)
EC50 - Crustacea [1]	5600 – 10000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Citric Acid (77-92-9) (Historical information; not tested on animals for cosmetics)	
LC50 - Fish [1]	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: OECD_SIDS)

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 Source: EPA)
EC50 - Crustacea [1]	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

Not established.

12.3. Bioaccumulative potential

Mandelic Acid (90-64-2) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	0.52 (at 23 °C (at pH 9)

Glycerin (56-81-5) (Historical information; not tested on animals for cosmetics)	
BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	-1.75 (at 25 °C (at pH 7.4)

Pentylene Glycol (5343-92-0) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	0.06 (at 25 °C)

Salicylic Acid (69-72-7) (Historical information; not tested on animals for cosmetics)	
BCF - Fish [1]	(1000 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	2.25 (at 25 °C)

Glutamic Acid (56-86-0) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	< -4 (at 20 °C)

Chlorphenesin (104-29-0) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	1.23 (at 23 °C (at pH 6.4)

Allantoin (97-59-6) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-2.26 (at 23 °C)

Butylene Glycol (107-88-0) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-0.9 (at 25 °C (at pH 7.5)

Tetrasodium Glutamate Diacetate (51981-21-6) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	< 0 (at 27 °C (at pH 7)

Caprylyl Glycol (1117-86-8) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	2.1 (at 25 °C (at pH 6)

Citric Acid (77-92-9) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-1.72 (at 20 °C)

Urea (57-13-6) (Historical information; not tested on animals for cosmetics)	
BCF - Fish [1]	(10 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	< -1.73 (at 22 °C)

Aloe Barbadensis Flower Extract (85507-69-3) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-2.58 (at 20 °C (at pH 7)

Trehalose (99-20-7) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	< 0.3 (at 25 °C (at pH >=6-<=7)

1,2-Hexanediol (6920-22-5) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	0.58 (at 25 °C (at pH 7.09-7.49)

Ocimum Basilicum (Basil) Flower/Leaf Extract (84775-71-3) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	5.6 (at 25 °C)

Taurine (107-35-7) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-1.3 (at 20 °C (at pH >=5-<=7)

Betaine (107-43-7) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	≤ -3.1 (at 20 °C)

Inositol (87-89-8) (Historical information; not tested on animals for cosmetics)	
Partition coefficient n-octanol/water (Log Pow)	-2.08

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.

Ecological waste information : 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

Component	State or local regulations
Glycerin (56-81-5)	U.S. - New Jersey - Right to Know Hazardous Substance 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

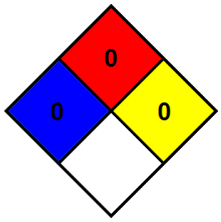
SECTION 16: Other information

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 hazard classes and H-statements listed in Section 3:

H227	Combustible liquid
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H402	Harmful to aquatic life

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.

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.