

Scheme No. : BN-4Q-R001

Version No. : VO-01

Product Name : **SunCat MTA II**

Revision Date : 2024-01-12

1. IDENTIFICATION OF PRODUCT / MIXTURE AND OF COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name : **SunCat MTA II**

1.2. Relevant Identified Uses of Mixture and Uses Advised Against :

Identified Uses : Use in Cosmetic Formulation and Manufacturing.
Broad Spectrum, High Efficiency, Enwrapped Organic Sunscreen
Premix Dispersion.

1.3. Details of The Supplier of The Safety Data Sheet :

Manufacturing : **Bio-Nest Biochemical Technology Co., Ltd.**

No.18, Jhen-Bei N. Lane, Jhen-Bei Village, Feng-Shan Dist.,

Kaohsiung City 83041, Taiwan <https://www.bio-nest.com>

TEL : 886-7-733 5368 FAX : 886-7-733 5370

1.4. Emergency Phone No. : +886-7-733 5368 GMT 00:30 – 09:30 & not on holidays.

2. HAZARDS IDENTIFICATION

2.1. Classification of the Mixture :

Aquatic Chronic : 4 **H413** May cause long-lasting harmful effects to aquatic life.
Classification according to Regulations (EC) no.1272/2008 (CLP)

2.2. Label Elements : Labeling according to Regulations (EC) no.1272/2008 (CLP)

Hazard Statement : **H413** May cause long lasting harmful effects to aquatic life.

Hazard Pictogram : None

Signal Word : None

Precautionary Statements :

P273 Avoid release to the environment

P501 Dispose of contents/container in accordance with local
regulations

2.3. Other hazards : No other known hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Characterization : ☐ Pure Substance

3.2. ☒ Mixture

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Components :

No.	INCI Name / [IECIC 2021] 中文名称	CAS No.	EINECS No.	wt. %	Function/ REACh
1.	Aqua; Water [06259; 06260] 水	7732-18-5	231-791-2	37.6 %	Solvent Exempt
2.	Ethylhexyl Methoxycinnamate [03352] 甲氧基肉桂酸乙基己酯	5466-77-3	226-775-7	25.0 %	UV Filter VI/12 <10 % 01-2119471476-31-0003
3.	Butyl Methoxydibenzoylmethane [01955] 丁基甲氧基二苯甲酰基甲烷	70356-09-1	274-581-6	15.0 %	UV Filter VI/8 <5 % 01-2119967408-25-xxxx
4.	Octocrylene [01062] 奥克立林	6197-30-4	228-250-8	10.0 %	UV Filter VI/10 <10 % 01-2119457637-27-xxxx
5.	Butylene Glycol [01946] 丁二醇	107-88-0	203-529-7	10.0 %	Solvent 01-2119455875-25-xxxx
6.	Lecithin [04456] 卵磷脂	8002-43-5	232-307-2	1.0 %	Emulsifying Exempt
7.	Phenethyl Alcohol [01296] 苯乙醇	60-12-8	200-456-2	1.0 %	Fragrance 01-2119963921-31-xxxx
8.	Hydroxyacetophenone [02021] 对羟基苯乙酮	99-93-4	202-802-8	0.4 %	Antioxidant 01-2119970711-37-xxxx

Notes :

- 2-Ethylhexyl trans-4- Methoxycinnamate : Data revised from Ethylhexyl Methoxycinnamate (CAS No. 5466-77-3; EC No. [226-775-7](#)) According to ECHA 2016 "[Annex to the opinion of the msc on the draft community rolling action plan \(CoRAP\) annual update for years 2016-2018, \(09-Aug-2016 \)](#)" for UK REACH.
- Environmental Impact : A precautionary "Category 4" is assigned, arising from Category 4 assigned to Butyl Methoxydibenzoylmethane (Avobenzone) & Octocrylene.
- Phenoxyethanol usage at <0.1% w/w is not taken as relevant ingredient for skin/eye irritation (per ECHA "Guidance on Information Requirements and Chemical Safety Assessment" page 314, Version 4.1 - June 2015)
Aquatic Chronic Category 4 is "precautionary fallback" Oral toxicity of Phenoxyethanol from prior studies was LD50 - rat : 1,260 mg/kg. With a content of 0.1% in SunCat MTA, this is not relevant as a contributor to toxicity.

4. FIRST AID MEASURES

4.1. Description of First Aid Measures

General : If in doubt, consult physician – and show this SDS.

- After Inhalation Of Dust : Not applicable

- After Skin Contact : Wash off immediately with soap and water.

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- After Eye Contact : Flush eye immediately and thoroughly; protect the unaffected eye.
If any irritation continues, consult a physician.
- After Swallowing : In the event of any symptoms, seek medical advice (show the label or this SDS where possible).

4.2. Most Important Symptoms and Effects (Both Acute and Delayed) :

No known specific adverse effects and none reported.

4.3. Indication of Any Expected Symptoms for Immediate Medical Attention or Special treatment :

Symptomatic treatment.
No data found or reported of any acute adverse effects.
If any unexplained/unexpected symptoms or reactions do occur, always act on the safe side, and consult medical help.
Also, report any such occurrence to supplier.

5. FIRE FIGHTING MEASURES

General Information : (THIS MIXTURE IS NOT CLASSIFIED AS FLAMMABLE)

If involved in a surrounding fire

- 5.1. Extinguishing Media : Foam, carbon dioxide, dry powder, water spray.
- 5.2. Special Hazards if mixture surrounded by fire :
Carbon dioxide, carbon monoxide may be released
- 5.3. Special Protective Equipment for Firefighters :
Normal fire-fighting equipment. Protective measures should be taken regarding other material at the site of the fire.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions, Protective Equipment and Emergency Procedures :
Use personal protective equipment to protect skin, eyes, hands.
Wear chemical resistant overall
- 6.2. Environmental Precautions : Do not allow to enter drains or waterways.
Do not discharge onto open ground.
- 6.3. Methods and Material for Containment and Cleaning
Pick up spillage mechanically with plastic scoop and place in clean plastic container for safe disposal. Label clearly and include note "FOR DISPOSAL".
Dispose of collected material in accordance with local regulations.

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Do not attempt to re-use spilt product.

6.4. Reference To Other Sections :

See also

- 7 for information on safe handling;
- 8 for information on personal protective equipment;
- 13 for disposal information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling :

No special measures necessary.

Immediately clean up spillages on floor as these may become slippery

7.2. Conditions for safe storage, including any incompatibilities :

Keep container tightly closed when not in use.

Keep out of direct sunlight in a well-ventilated warehouse.

Always keep temperature between 20 - 30 °C and above freezing point.

Label clearly and ensure no cross-contamination and no overheating.

7.3. Specific End Uses :

No special measures required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters - Ingredients with Limit values require workplace monitoring :

Not applicable.

8.1.1. National Limit Values :

Not applicable.

8.2. Exposure Controls :

Not applicable.

8.2.1. Appropriate Engineering Controls :

Handle in premises which have modern ventilation standards.

Personal Protective Equipment :

- General Protection Measures :

Avoid contact with eyes and skin.

- Hygiene Measures :

Remove contaminated clothing immediately.

Wash hands before breaks and after work.

- Hand Protection :

Protective rubber gloves.

- Eye Protection :

Safety spectacles with side shields.

- Respiratory Protection :

None required.

- Body Protection :

Light protective clothing. Launder if contaminated.

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- Eating/Drinking on Plant :

Not allowed – this is general rule for chemical plants.

8.2.3. Environmental Exposure Controls :

No specific measures needed.

8.2.4. Occupational Exposure Limits :

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information On Basic Physical And Chemical Properties :

- * (a) Appearance : Off-white to beige cream
- (b) Odor : Characteristic, slight, very mild.
- (c) Odor threshold : Not determined
- * (d) pH Value : 6.0 to 8.5 (at 24.5 °C, 5 % w/w in DI water)
- (e) Melting/ freezing point : The mixture freezes at 0 °C, “enwrapping” might be damaged.
- (f) Initial boiling point and range :
100 °C (destroys the enwrapping)
- (g) Flash point : N/A
- (h) Evaporation rate : Not measured
- (i) Flammability : Combustible in external fire - not classified as flammable
- (j) Upper/lower flammability or explosive limits :
N/A
- (k) Vapour pressure : Not measured
- (l) Vapour density : Not measured
- (m) Relative density : approximately 1 g/mL
- (n) Solubility : Readily dispersible suspension in water
- (o) Partition coefficient : [n-Octanol / Water] Not measured.
- (p) Auto-ignition temperature :
> 150 °C
- (q) Decomposition temperature :
> 150 °C
- (r) Viscosity : Not measured
- (s) Explosive properties : No
- * (t) Nano particles : Does not contain
- * (u) UV filters Containing : (2) Ethylhexyl Methoxycinnamate
23.75~ 26.25 % (25 ± 1.25 %)

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(3) Butyl Methoxydibenzoylmethane

14.25~ 15.75 % (15 ± 0.75 %)

(4) Octocrylene

9.50~ 10.50 % (10 ± 0.50 %)

9.2. Other Information :

Always ensure good containment inside equipment.

Avoid all cross-contamination.

10. STABILITY AND REACTIVITY

10.1. Reactivity : Low reactivity

10.2. Chemical stability : High stability of the product mixture shelf life >3 years under recommended storage conditions (20 to 30 °C)

10.3. Possibility of Hazardous Reactions :

No known hazardous reactions.

10.4. Conditions to avoid : Avoid freezing to avoid enwrapping damage.

10.5. Incompatible materials : Avoid mixing with strong acids or alkalis or with strong oxidizing agents.

10.6. Hazardous Decomposition Products :

None, with proper storage & handling

(see Section 5 if involved in fire)

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity : Toxicity of all components is low. Prior to cosmetics animal testing ban, the following data had been collected by industry (not by Bio-Nest)

#	INCI Name	wt. %	Assumed Toxicity Value
1.	Water	37.6 %	Low toxicity and exempt.
2.	Ethylhexyl Methoxycinnamate	25.0 %	LD50 > 20,000 mg/kg (oral, rat)
3.	Butyl Methoxydibenzoylmethane	15.0 %	LD50 > 16,000 mg/kg (oral, rat)
4.	Octocrylene	10.0 %	LD50 > 5,000 mg/kg (oral, rat)
5.	Butylene Glycol	10.0 %	LD50 > 20,000 mg/kg (oral, rat)
6.	Lecithin	1.0 %	Low toxicity and exempt.
7.	Phenethyl Alcohol	1.0 %	LD50 > 650 mg/kg (oral, rat)
8.	Hydroxyacetophenone	0.4 %	LD50 > 2,240 mg/kg (oral, rat)

(b) Skin Corrosion / Irritation :

Non-Primary Irritant and Non-Primary Sensitizer

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- Method : 50 Human Subject Repeat Insult Patch Test Skin Irritation / Sensitization Evaluation (Occlusive Patch) using SunCat MTA (as is)
- Report by : The IRB of AMA Laboratories, Inc.
Ref. No. : MS 16.RIPT.O4881O.50.BNB, Pure SunCat MTA raw material (mixture), Lot no.: M-1512069, February 25, 2016.
- Method Reference : Appraisal of Safety of Chemicals in Food, Drugs and Cosmetics, published by The Association of Food and Drug Officials of The United States, 1965 (modified).
CRF Title 21 Part 56, Subpart A, B, C and D.

(c) Serious eye damage/irritation :

No specific ocular tests completed. Some 10 years Bio-Nest lab & commercial handling in Asia of closely related members of the SunCat product series, plus the last 3 years handling SunCat MTA (as is) in lab and commercial scale trials has given no evidence of eye irritation or damage. Also, no eye abnormalities were observed in the above RIPT tests at AMA.
Plus, many tests by AMA on end-product formulations have shown no adverse effects of any sort on the eyes (or the skin)

(d) Respiratory or skin sensitization :

No adverse effects found in any of the tests or from actual practical experience.

- (e) Germ cell mutagenicity : Not reported for any of components
- (f) Carcinogenicity : No component at or >0.1% is identified as probable, possible, or confirmed human carcinogen by IARC
- (g) Reproductive toxicity : No components suspected
- (h) STOT-single exposure : No adverse findings
- (i) STOT-repeated exposure :
No adverse findings
- (j) Aspiration hazard : No adverse effects seen or reported

12. ECOLOGICAL INFORMATION

- 12.1. Toxicity : All components low toxicity.
Avoid large spill in soil, water, and drains.

12.2. Persistence and degradability :

- (2) Ethylhexyl Methoxycinnamate – 25 %

* Readily biodegradable. 78% after 28 days (OECD Guideline 301F)

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(3) Butyl Methoxydibenzoylmethane – 15 %

* Not inherently biodegradable. No biodegradation under test conditions.

(4) Octocrylene – 10 %

* No biodegradation observed

(5) Butylene glycol – 10 %

* Biodegradable - 81% in 29 days (OECD Guideline 301B)

(6) Lecithin – 1 %

* Readily Biodegradable

- Phenoxyethanol :

* Readily biodegradable

Adsorption/Desorption :

(3) Butyl Methoxydibenzoylmethane – 15 %

log Koc 4.24-5.04 (20 °C)

(4) Octocrylene – 10 %

log Koc 5.61

12.3. Bio-accumulative potential : * Potential for bio-accumulation of 30% w/w Components Butyl Methoxydibenzoylmethane and Octocrylene (both low toxicities)

12.4. Mobility in Soil : * Mixed - but low toxicity

12.5. Results of PBT and vPvB assessment :

Based on current information, no components are PBT/vPvB

Ecotoxicity

(7) Phenethyl Alcohol (1 %)

- Acute hazards to the aquatic environment :

- Fish : LC 50 (Leuciscus idus, 96 h) : 220 - 460 mg/l

- Aquatic Invertebrates : EC50 (Daphnia magna, 24 h) : 329.88 mg/l

- Chronic hazards to the aquatic environment :

- Fish : No data available.

- Aquatic Invertebrates : No data available.

- Toxicity to Aquatic Plants : ErC50 (Scenedesmus subspicatus, 24 h) : 490 mg/l

- Persistence and Degradability

- Biodegradation : No data available.

- BOD/COD Ratio : No data available.

- Bioaccumulative potential Bioconcentration Factor (BCF) :

Not applicable

- Partition Coefficient n-octanol / water (log Kow) : 1.36

- Mobility in soil : No data available.

- Other adverse effects : The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV). Do not allow to enter soil, waterways or waste

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water canal.

Ecotoxicity

(8) Hydroxyacetophenone – 0.4 %

- Acute Fish toxicity : LC50 : 25 mg/l/96 h;
Oncorhynchus mykiss (rainbow trout), OECD Test
Guideline 203
- Acute toxicity Aquatic invertebrates :
EC50 : 50 mg/l/48 h;
Daphnia magna (Water flea), OPPTS 797.1300
- Toxicity to aquatic plants : NOEC : 2,8 mg/l/72 h;
Pseudokirchneriella subcapitata (green algae),
EPA OTS 797.1050
- Toxicity to microorganisms : EC20 : 130 mg/l/3 h;
Activated sludge, OECD 209
- Chronic toxicity Aquatic invertebrates :
EC10 : 0,521 mg/l/21 d;
Daphnia magna (Water flea), OECD 211
- Persistence and degradability :
Readily biodegradable. 91,1 %/28 d,
OECD 301B
- Bio-accumulative potential : No data available
- Mobility in soil : No data available
- Results of PBT and vPvB assessment :
 - PBT : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
 - vPvB : This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects :

- Further Ecological Information :

The SunCat MTA mixture has a precautionary classification of “Aquatic Chronic, Category 4” (H413 - “May cause long-lasting harmful effects to aquatic life”); this is on account of its content of Butyl Methoxydibenzoylmethane (20%) and Octocrylene (10%), both of which substances have the same Precautionary Classification of Aquatic Chronic, Category 4 (H413) from following data

- Eco-toxicity Information for	Butyl Methoxydibenzoylmethane	Octocrylene
	<u>15 %</u>	<u>10 %</u>

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Short Term Fish	NOEC (4 days)	30 µg/L	500 µg/L (average)
Long Term Fish		No data	23 µg/L (average)
Short Term Daphnia	NOEC (48 hr.)	30 µg/L	23 µg/L
Long Term Daphnia		No data	No data
Aquatic Plants	NOEC (4 days)	55 µg/L	No data
Aquatic Plants	NOEC (72 hr.)	No data	100 mg/L

- General : Do not allow industrial waste containing this substance to enter drains and sewers, water courses or ponds/lakes or open ground/soil.
- NOTE : There are no known adverse to environment synergistic effects known between the contents of the SunCat MTA mixture.

13. DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods :

- H413** May cause long-lasting harmful effects to aquatic life.
- P273** Avoid release to the environment.
- P501** Dispose of contents/container in accordance with local regulations.

- Product : Avoid release to the environment.
Dispose in a safe manner in accordance with local/national regulations (High Temperature incineration above 1,100°C is normally best).

- Contaminated Packaging :
If empty contaminated containers are to be recycled, they must first be thoroughly cleaned, dried and certified clean.
They must NOT be re-used for any cosmetic or sunscreen products or similar.

14. TRANSPORT INFORMATION

- General Information : The product is not classified as hazardous goods for land, sea, or air transport according to the respective regulations (ADR, IMDG, IATA-DGR).

- 14.1. UN number : Not classified as dangerous goods.
- 14.2. UN Proper Shipping Name : Not applicable.
- 14.3. Transport Hazard Class(es) : Not applicable.
- 14.4. Packing Group : Not applicable.
- 14.5. Environmental Hazards : Not applicable.

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14.6. Special Precautions for user : Not applicable.

14.7. Transport in Bulk According to Annex II of MARPOL73/78 and The IBC Code
Not applicable.

14.8. Other Transport Information :
Not applicable.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the mixture :

- Dosage Regulations : SunCat MTA Maximum Usages (w/w) in Sunscreen Formulations to comply local regulations.

AUS	33 % ,	CAN	20 % ,	CN	33 % ,
EU	33 % ,	JPN	66 % ,	TWN	33 % ,
USA	20 %				

15.2. Safety Assessment :

REF: "Survey and health assessment of UV filters" Ministry of Environment and Food, The Danish Environmental Protection Agency 6.2.1~19 ; Pgs. : 196 – 228
<https://www2.mst.dk/udgiv/publications/2015/10/978-87-93352-82-7.pdf>

Product Name : SunCat MTA II			Dosage Recommend : 5 ~ 12 % ; Max. < 33 %			
Ethylhexyl Methoxycinnamate						
VI/12, S28, < 10 % 01-2119471476-31-0000						
Butyl Methoxydibenzoylmethane						
VI/ 8, S66, < 5 % 01-2119967408-25-0000						
Octocrylene			10 %	15 %	25 %	Raw Material
VI/10, S32, < 10 % 01-2119457637-27-0000			3.3 %	5 %	8.3 %	Dosage Max.
Amount of sunscreen applied daily	Qa	=	18,000	18,000	18,000	mg/day
Concentration of ingredient in finished product	C	=	10 %	5 %	10 %	
Total amount of active ingredient applied	Qi	= Qa x C =	1,800	900	1,800	mg/day
Absorption of active ingredient	DAP	=	10 %	10 %	10 %	
Total amount absorbed Aabs	Qt	= Qi x DAP =	180	90	180	mg/day
Typical body weight of human	bw	=	60	60	60	Kg
Systemic exposure dose	SED	= Qt / bw =	3	15	3	mg/kg bw/day
No Observed Adverse Effect Level	NOAEL	=	175	450	450	mg/kg bw/day
teratogenicity study, maternal effects, oral, rat						
Margin of Safety	MoS	= NOAEL / SED =	58	300	150	
Margin of Safety when at Dosage Max.	MoSmx	= MoS * C / Max.=	175	300	180	> 100 each

16. OTHER INFORMATION

16.1. References : Based on supplier data via SIEF Groups and on usages of each component.

(a) Indication Of Where Changes Have Been Made To The Previous Version Of The Safety Data Sheet Revisions Of This Document :

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See 12.2. & 12.3.

(b) Legend to abbreviations and acronyms used in the safety data sheet Explanations of the abbreviations in Section 14 :

- ADR European Agreement concerning the International Transport of Dangerous Goods by Road
- RID Regulations concerning the International Transport of Dangerous Goods by Rail
- IMDG International Maritime Dangerous Goods Code
- ICAO International Civil Aviation Organization
(ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
- IATA The International Air Transport Association
- (c) Key Literature References and Sources for Data :

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2017-03-31.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g., IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g., material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion.

If in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet :

1907/2006 Annex II (2015/830)

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

1272/2008

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

EH40/2005

EH40/2005 Workplace exposure limits

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1907/2006

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

(d) Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of Classification :

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

(e) List of relevant hazard statements and / or precautionary statements :

H413 May cause long-lasting harmful effects to aquatic life.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local regulations.

(f) Advice on any training appropriate for workers to ensure protection of human health and the environment Warning for misuse :

Other Information :

References in this SDS for animal test results were carried out before such tests were banned for cosmetics. Bio-Nest policy is to avoid all animal testing.

Create Date / Version : 2022-08-23 VM-01

Previous Date / Version : 2023-12-12 VN-01

16.2. Revision Reasons : Section 15.2 Safety Assessment

16.3. Current Date / Version : 2024-01-12 VO-01

Issue Date : 2024-01-12

Print Date : 2024-01-12

DISCLAIMER OF LIABILITY : The information contained herein is provided in good faith but makes no claim as to its comprehensiveness or accuracy.

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