

Safety Data Sheet

(REACH Regulation (EC) No. 1907/2006 – No. 453/2010)

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Version : 2

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MISTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

- Product Name : SELASTIN

1.2. Relevant identified uses of the substance or mixture and uses advised against

- Identified uses : Cosmetic Ingredient

1.3. Details of the supplier of the safety data sheet

- Registered company name : SK bioland

- Address : 59 Songjeongni 2-Gil, Byeongcheon, Dongnam, Cheonan, Chungnam 330-863 Korea

- Tel : + 82-41-550-7700

- Fax : + 82-41-550-7709

- Email : bioland@skbioland.com

- Web : www.skbioland.com

1.4. Emergency telephone number

- Safety department : + 82-41-550-7801

- International sales department (English available) : + 82-41-550-7763

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 (CLP) and its amendments

- This mixture does not present a physical hazard.

- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC (Dangerous Substances Directive, DSD), 1999/45/EC (Dangerous Preparations Directive, DPD) and their amendments

- This mixture does not present a physical hazard.
- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

- In compliance with EC regulation No. 1272/2008 (CLP) and its amendments.
- In compliance with directives 67/548/EEC (Dangerous Substances Directive, DSD), 1999/45/EC (Dangerous Preparations Directive, DPD) and their amendments

2.3. Other hazards

- No data available.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

- No substances fulfill the criteria set forth in annex II section A of the REACH regulation (EC) No. 1997/2006

3.2. Mixtures

Composition :

Components	CAS No.	EINECS No.	Reason for Indication
Water	7732-18-5	231-791-2	Non-classified vPvB substance by REACH regulation (EC) No. 1907/2006
Butylene Glycol	107-88-0	203-529-7	Non-classified vPvB substance by REACH regulation (EC) No. 1997/2006
Ecklonia Cava Extract	---	---	Non-classified vPvB substance by REACH regulation (EC) No. 1997/2006
Hizikia Fusiforme Extract	---	---	Non-classified vPvB substance by REACH regulation (EC) No. 1997/2006
Codium Tomentosum Extract	---	---	Non-classified vPvB substance by REACH regulation (EC) No. 1997/2006
Gelidium Cartilagineum Extract	94945-01-4	305-680-5	Non-classified vPvB substance by REACH regulation (EC) No. 1997/2006
Phenoxyethanol	122-99-6	204-589-7	Non-classified vPvB substance by REACH regulation (EC) No. 1997/2006

SECTION 4. FIRST AID MEASURES

- As a general rule, in case of doubt or if symptoms persist, always call a doctor.
- Never induce swallowing in an unconscious person.

4.1. Description of first aid measures

In the event of swallowing :

- Do not give the patient anything orally.
- In the event of swallowing, if the quantity is small, rinse the mouth with water and consult a doctor.
- Keep the person exposed at rest. Do not force vomiting.
- Seek medical attention immediately.
- If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary.

In the event of splashes or contact with eyes

- Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

4.2. Most important symptoms and effects, both acute and delayed

- No data available.

4.3. Indication of any immediate medical attention and special treatment needed

- No data available.

SECTION 5. FIREFIGHTING MEASURES

- Non-flammable.

5.1. Extinguishing media:

Suitable methods of extinction

In the event of a fire, use :

- Sprayed water or water mist
- Foam
- Multipurpose ABC powder
- Carbon dioxide (CO₂)

Unsuitable methods of extinction

In the event of a fire, do not use :

- Water jet

5.2. Special hazards arising from the substance or mixture

- No data available.

5.3. Advice for firefighters

- Heat / fire exposure : Compressed air/oxygen apparatus
 - Protective clothing
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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

- Avoid any contact with the eyes.

For fire-fighters

- Fire-fighters will be equipped with suitable personal protective equipment.

6.2. Environmental precautions

- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
- Prevent the product from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

- No data available.

6.4. Reference to other sections

- No data available.
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SECTION 7. HANDLING AND STORAGE

- Requirements relating to storage premises apply to all facilities where the mixture is handled.
- Individuals with a history of any problem with this mixture should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

- Always wash hands after handling.
- Remove and wash contaminated clothing before re-using.

Fire prevention :

- Handle in well-ventilated areas.
- Prevent access by unauthorized personnel.

Recommended equipment and procedures :

- Observe precautions on industrial safety regulations.

- Avoid exposure – obtain special instructions before use.
- Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

- No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Packaging

- Store at room temperature (1~30°C) in a tightly closed and lightproof container.
- Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

- No data available
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Not applicable.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment :

Eye protection

- Avoid contact with eyes.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- (a) Appearance : Colorless clear liquid
- (b) Odour : Characteristic
- (c) Odour threshold : Impossible to measure or value not relevant.
- (d) pH : 4.5 ~ 6.5 (20°C)
- (e) Melting point / freezing point : No data available.
- (f) Initial boiling point and boiling range : No data available.
- (g) Flash point : No data available.
- (h) Evaporation range : No data available.
- (i) Flammability (solid, gas) : Not flammable.
- (j) Upper / lower flammability or explosive limits : Impossible to measure or value not relevant.
- (k) Vapour pressure : Impossible to measure or value not relevant.

- (l) Vapour density : Impossible to measure or value not relevant.
 - (m) Relative density : No data available.
 - (n) Solubility(ies) : Soluble in many organic solvents.
 - (o) Partition coefficient ; n-octanol/water : Impossible to measure or value not relevant.
 - (p) Auto-ignition temperature : Impossible to measure or value not relevant.
 - (q) Decomposition temperature : Impossible to measure or value not relevant.
 - (r) Viscosity : No data available.
 - (s) Explosive properties : Not explosive
 - (t) Oxidising properties : Under strong light, high temperature oxidation can be occurred.
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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

- No data available.

10.2. Chemical stability

- This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

- No data available.

10.4. Conditions to avoid

- No data available.

10.5. Incompatible materials

- No data available.

10.6. Hazardous decomposition products

- No data available.
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SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

- (a) Acute toxicity : No data available.
- (b) Skin corrosion / irritation : No data available.
- (c) Serious eye damage / irritation : No data available.
- (d) Respiratory or skin sensitization : No data available.

No data is available on respiratory sensitization.

- (e) Germ cell mutagenicity : No data available.

- (f) Carcinogenicity : No data available.
 - (g) Reproductive toxicity : No data available.
 - (h) STOT-single exposure : No data available.
 - (i) STOT-repeated exposure : No data available.
 - (j) Aspiration hazard : No data available.
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SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Substances

- No aquatic toxicity data available for the substances.

Mixtures

- No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

- No data available.

12.3. Bioaccumulative potential

- No data available.

12.4. Mobility in soil

- No data available.

12.5. Results of PBT and vPvB assessment

- No data available.

12.6. Other adverse effects

- No data available.
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SECTION 13. DISPOSAL CONSIDERATIONS

- Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

- Do not pour into drains or waterways.

Waste :

- Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
- Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

- Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

- Empty container completely. Keep label(s) on container.
 - Give to a certified disposal contractor.
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SECTION 14. TRANSPORT INFORMATION

- Exempt from transport classification and labeling.
 - Transport product in compliance with provisions of the ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road) for road, RID (Regulations concerning the International Carriage of Dangerous Goods by Rail) for rail, IMDG (International Maritime Dangerous Goods) for sea and ICAO/IATA (Technical Instruction for the Safe Transport of Dangerous Goods by Air by The International Civil Aviation Organization / International Air Transport Association) for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2011).
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SECTION 15. REGULATORY INFORMATION

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

Particular provisions :

- No data available.

15.2. Chemical safety assessment

- No data available.
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SECTION 16. OTHER INFORMATION

- Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
- The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.
- It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
- The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.