

## 1. Identification of the Substance or Mixture and of the Supplier

### GHS Product Identifier

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Product Name                             | Glabridin                         |
| INCI Name                                | GLABRIDIN                         |
| Recommended Use of the Substance/Mixture | Spot-removing & brightening agent |

## 2. Hazards Identification

### Classification of the Substance or Mixture

Not classified

### GHS Label Elements, Including Precautionary Statements

**Pictogram:** No data available

**Signal Word:** Warning

### Hazard Statements

No data available

### Precautionary Statements

No data available

## 3. Composition/Information on Ingredients

| INCI Name | Chemical Name | CAS No.    | EC No.    | Purity |
|-----------|---------------|------------|-----------|--------|
| GLABRIDIN | Glabridin     | 59870-68-7 | 611-908-7 | ≥99%   |

## 4. First-Aid Measures

### Description of Necessary First-Aid Measures

- **Inhalation** If inhaled, move the victim to fresh air.
- **Skin Contact** Remove contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if discomfort occurs.
- **Eye Contact** Hold eyelids apart and rinse with running water or saline. Seek medical attention immediately.
- **Ingestion** Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.
- **Advice for the Rescuer** Move the victim to a safe location. Consult a physician. Show this Safety Data Sheet to the attending physician.
- **Special Note for Physicians** None.

### Acute/Chronic Effects

- **Skin Contact** Non-irritating and non-sensitizing.
- **Eye Contact** May cause ocular irritation, lacrimation and other symptoms.
- **Treatment Guidance** Administer targeted interventions according to exposure route and symptoms, including skin cleansing, eye irrigation and symptomatic management.

## 5. Fire-Fighting Measures

- Suitable Extinguishing Media** Water fog, alcohol-resistant foam, dry chemical powder, carbon dioxide.
- Unsuitable Extinguishing Media** Avoid using a direct water jet, which may cause the fire to spread.
- Special Fire-Fighting Procedures** Firefighters must wear gas masks and full protective fire gear, and fight the fire from the upwind direction.
- Specific Hazards Arising from the Substance or Mixture (Fire/Explosion Risk)** Combustible upon exposure to open flame or high heat.
- Hazardous Thermal Decomposition Products** Combustion may generate carbon monoxide, carbon dioxide and other substances.
- Special Protective Equipment and Precautions for Firefighters** Wear self-contained breathing apparatus, fire-retardant protective clothing, protective gloves, etc.

## 6. Accidental Release Measures

### **Personal Precautions and Protective Equipment**

Emergency responders shall wear self-contained breathing apparatus, antistatic protective clothing and oil-resistant rubber gloves. Do not touch or step across spilled material. All equipment used during operation shall be earthed. Cut off spillage source where feasible. Eliminate all ignition sources. Establish warning zones according to the spreading range of liquid flow, vapour or dust; evacuate irrelevant personnel to safe areas from cross-wind and upwind directions.

### **Environmental Precautions**

Contain spilled material to avoid environmental contamination. Prevent spilled material from entering sewers, surface water, and groundwater.

### **Methods and Materials for Containment and Cleaning Up**

Minor spillage: Collect spilled liquid into sealable containers as much as possible. Absorb residual material with sand, activated carbon or other inert media and transfer to a secure location. Do not flush into sewers.

Major spillage: Construct dikes or pits for containment; seal drainage pipelines. Cover spillage with foam to suppress volatilization. Transfer material to tank trucks or dedicated collection vessels via explosion-proof pumps for recovery or delivery to waste-disposal facilities.

## 7. Handling and Storage

### **Handling Precaution**

Carry out operations in well-ventilated areas. Avoid vapour generation and inhalation. Prevent contact with incompatible substances such as oxidants.

### **Storage Requirements**

Store in cool, well-ventilated warehouses. Keep away from open flames and heat sources. Store separately from oxidants and food-grade chemicals; mixed storage is prohibited.

### **Stacking of Fiber Drums**

Do not stack drums excessively high to avoid collapse; maintain adequate ventilation around stacks.

### **Suitable Packaging Materials**

Aluminium-foil bags, fibre drums or paper drums lined with PE / aluminium-foil bags, etc.

### **Unsuitable Packaging Materials**

Corrosion-susceptible metal containers, clear glass, transparent plastic containers.

## 8. Exposure Controls/Personal Protection

|                                        |                                                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Respiratory Protection</b>          | Wear air-purifying half-face respirators when airborne concentration exceeds occupational exposure limits. |
| <b>Skin and Body Protection</b>        | Wear impermeable chemical protective coveralls.                                                            |
| <b>Hand Protection</b>                 | Wear rubber gloves.                                                                                        |
| <b>Eye Protection</b>                  | Wear chemical safety goggles.                                                                              |
| <b>Environmental Exposure Controls</b> | Enhance mechanical ventilation; regularly monitor airborne substance concentration in the workplace.       |

## 9. Physical and Chemical Properties

|                                               |                            |
|-----------------------------------------------|----------------------------|
| <b>Appearance</b>                             |                            |
| <b>Physical State</b>                         | Solid powder               |
| <b>Color</b>                                  | Light yellow               |
| <b>Odor</b>                                   | Odorless                   |
| <b>Odor Threshold</b>                         | No data available          |
| <b>pH (1% aqueous dispersion)</b>             | No data available          |
| <b>Melting Point</b>                          | 154- 155 °C                |
| <b>Boiling Point</b>                          | 518.6 °C at 760 mmHg       |
| <b>Flash Point</b>                            | 267.4 °C                   |
| <b>Evaporation Rate</b>                       | No data available          |
| <b>Flammability (Solid, Gas)</b>              | No data available          |
| <b>Explosive Limits (Upper/Lower)</b>         | No data available          |
| <b>Vapor Pressure</b>                         | 0.0±1.4 mmHg at 25 °C      |
| <b>Vapor Density</b>                          | No data available          |
| <b>Bulk Density</b>                           | No data available          |
| <b>Water Solubility</b>                       | No data available          |
| <b>Solubility</b>                             | Sparsingly soluble in DMSO |
| <b>Partition Coefficient: n-Octanol/Water</b> | No data available          |
| <b>Autoignition Temperature</b>               | No data available          |
| <b>Decomposition Temperature</b>              | No data available          |
| <b>Surface Tension</b>                        | No data available          |

## 10. Stability and Reactivity

|                                         |                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                       | The substance remains stable when stored and used under ambient environmental temperature. |
| <b>Chemical Stability</b>               | Chemically stable                                                                          |
| <b>Hazardous Reactions</b>              | No data available.                                                                         |
| <b>Conditions to Avoid</b>              | Electrostatic discharge, high temperature, moisture, etc.                                  |
| <b>Materials to Avoid</b>               | Strong oxidants, strong acids, etc.                                                        |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide, carbon dioxide, etc.                                                      |

## 11. Toxicological Information

|                                       |                   |
|---------------------------------------|-------------------|
| <b>Acute Oral Toxicity</b>            | No data available |
| <b>Acute Dermal Toxicity</b>          | No data available |
| <b>Acute Inhalation Toxicity</b>      | No data available |
| <b>Skin Corrosion/Irritation</b>      | No data available |
| <b>Serious Eye Damage/Irritation</b>  | No data available |
| <b>Respiratory/Skin Sensitization</b> | No data available |

### Germ Cell Mutagenicity — In Vitro Tests

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • <b>Bacterial Reverse Mutation Test</b>                                          | No data available                                                                                                                                                                                                                                                                                                                                                                     |
| • <b>Mammalian Cell Gene Mutation Assay</b>                                       | No data available                                                                                                                                                                                                                                                                                                                                                                     |
| • <b>Mammalian Chromosome Aberration Test</b>                                     | No data available                                                                                                                                                                                                                                                                                                                                                                     |
| • <b>Carcinogenicity</b>                                                          | No data available                                                                                                                                                                                                                                                                                                                                                                     |
| • <b>Reproductive Toxicity</b>                                                    | No data available                                                                                                                                                                                                                                                                                                                                                                     |
| • <b>STOT — Single Exposure</b>                                                   | No data available                                                                                                                                                                                                                                                                                                                                                                     |
| • <b>STOT — Repeated Exposure</b>                                                 | No data available                                                                                                                                                                                                                                                                                                                                                                     |
| • <b>Aspiration Hazard</b>                                                        | No data available                                                                                                                                                                                                                                                                                                                                                                     |
| • <b>Potential Routes of Exposure</b>                                             | Inhalation, dermal contact, eye contact, ingestion.                                                                                                                                                                                                                                                                                                                                   |
| • <b>Physical and Chemical-Related Symptoms and Toxicological Characteristics</b> | Exposure to high concentrations may cause eye, respiratory-tract and skin irritation; large oral intake may trigger gastrointestinal discomfort.                                                                                                                                                                                                                                      |
| • <b>Effects of Short-Term and Long-Term Exposure</b>                             | Short-term exposure to high concentrations may produce irritant symptoms.<br>Long-term repeated dust inhalation may result in chronic respiratory discomfort and airway hypersensitivity. Frequent skin contact may lead to dry and rough skin, and occasional mild contact dermatitis. No systemic cumulative poisoning or chronic organ damage occurs under regular exposure doses. |

## 12. Ecological Information

|                                                     |                   |
|-----------------------------------------------------|-------------------|
| <b>Short-Term Toxicity to Fish</b>                  | No data available |
| <b>Long-Term Toxicity to Fish</b>                   | No data available |
| <b>Short-Term Toxicity to Aquatic Invertebrates</b> | No data available |
| <b>Long-Term Toxicity to Aquatic Invertebrates</b>  | No data available |
| <b>Toxicity to Aquatic Algae</b>                    | No data available |
| <b>Persistence and Degradability</b>                | No data available |
| <b>Bioaccumulation Potential</b>                    | No data available |
| <b>Mobility in Soil</b>                             | No data available |
| <b>Other Adverse Effects</b>                        | No data available |

## 13. Disposal Considerations

**Disposal Method:** Dispose by incineration; scrub exhaust gas from incinerators to eliminate hazardous components. Prior to waste disposal, comply with national and local regulatory requirements. Return empty containers to manufacturers or dispose of them in accordance with national waste standards.

## 14. Transport Information

**UN Number:** No data available

**Packaging Category:** No data available

**Transport Precautions:** Transport vehicles shall be equipped with corresponding fire-fighting equipment and spill emergency response kits. Transport preferably during morning and evening hours in summer; avoid direct sunlight, rain and high-temperature exposure en route. Park vehicles away from open flames, heat sources and high-temperature zones during stops.

## 15. Regulatory Information

**Domestic Regulations:** Compliant with Technical Specifications for Cosmetic Safety, National Food Safety Standard- Standards for Use of Food Additives and other relevant domestic codes.

**International Regulations:** Compliant with EU REACH Regulation, US FDA requirements and other regional standards (subject to destination country for export shipments).

## 16. Other information

### **Not available**

The information contained herein is based on data believed to be accurate. However, no express or implied warranty is made regarding the accuracy of such data or the results obtained from their use. If reasonable safety procedures specified in this data sheet are not followed, the company shall not be liable for any injury to the user or third parties directly caused by this material. Even if reasonable safety procedures are followed, the company shall not be liable for any injury to the user or third parties resulting from abnormal use of the material. Furthermore, the user assumes all risks associated with the use of this material.