

MATERIAL SAFETY DATA SHEET



α G HESPERIDIN

Last Update:
Dec. 12, 2014

Page:
1/3

1. PRODUCT AND COMPANY IDENTIFICATION

- **Product Trade Name:** α G HESPERIDIN
- **Recommended Use:** Cosmetic ingredient
- **Supplier:** SETHIC
68 Boulevard du Port Royal, 75005 Paris, FRANCE
TEL : +33 (1) 73 79 28 04 / +33 (1) 77 72 94 92
www.sethic.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

- **Product description:** Monoglucosyl hesperidin, hesperetin 7-o-glucoside
- **INCI Name:** Glucosyl hesperidin
- **CHINA INCI (2007 / 2010):** YES
- **CHINA IECIC 2014:** YES
- **CAS#:** --
- **EINECS#:** --
- **Composition:** Glucosyl hesperidin (100%)

3. HAZARDS IDENTIFICATION

- **Applicable hazardous criteria:** none

The product is a non-flammable powder. Highly safe material enzymatically manufactured from dextrin and hesperidin, two ingredients commonly found in nature.

4. FIRST-AID MEASURES

- **General reference:** Hand this safety data sheet to the treating doctor.
- **Ingestion:** If large quantities of this material are swallowed, get medical attention. Do not induce vomiting unless directed to do so by medical personnel.
- **Inhalation:** Remove to fresh air and gargle with water. If not, breathing, give artificial respiration. Get medical attention.
- **Skin Contact:** Wash areas thoroughly with water.
- **Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water.

5. FIRE FIGHTING MEASURES

- **Flammable properties:**
 - **Flash point:** Not available
 - **Flammable limit:** Not available
 - **Auto ignition:** Not available
- **Extinguishing Media:** Dry chemical, water fog, foam and carbon dioxide. Avoid water jet.
- **Fire fighting instructions:** Keep personnel removed from and upwind of fire. Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection.

MATERIAL SAFETY DATA SHEET



α G HESPERIDIN

Last Update:
Dec. 12, 2014

Page:
2/3

6. ACCIDENTAL RELEASE MEASURES

- **Overview:** The product is biodegradable. In case of spill, the personnel is required to wear an eye protection gear and impermeable gloves.
- **Land spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose according to local, regional and national authority requirements. Follow all regulatory requirements for non-hazardous waste disposal.

7. HANDLING AND STORAGE

- **Handling precautions:** Ensure good ventilation/exhaustion at the workplace. Use protective clothing and equipment. In case of spill, please refer to Section 6.
- **Storage conditions:** Keep container tightly closed, store at room temperature in a clean, odor-free and dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Engineering controls:** No specific controls are needed. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below exposure limits.
- **Personal protective equipment:** No specific controls are needed. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below exposure limits.
 - **Respiratory protection:** If ventilation is not sufficient to effectively remove and prevent dust buildup, appropriate respiration protection should be provided. Be sure to use an approved/certified respirator or equivalent.
 - **Eyes protection:** Wear safety glasses.
 - **Skin protection:** Use latex gloves and protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical State**
 - **Appearance:** Powder
 - **Color:** Pale yellow to yellowish brown
 - **Odor:** Faint characteristic odor
- **pH (10% solution):** 5.0 – 7.0 (1% w/w water solution)

10. STABILITY AND REACTIVITY

- **Stability:** Stable ordinary storage conditions
- **Conditions to avoid:** Accumulation of airborne dust
- **Incompatibility with other materials:** May react with strong oxidizing agents
- **Hazardous decomposition products:** No hazardous decomposition products known. Upon decomposition, the product emits carbon monoxide, carbon dioxide and low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

- **Acute oral toxicity:** LD₅₀ > 2 g/Kg¹
- **90-day repeated dose oral toxicity:** None²
- **Skin primary irritation:** None³
- **Skin sensitization:** None⁴
- **Phototoxicity:** None⁵
- **Eye irritation:** None⁶

MATERIAL SAFETY DATA SHEET



α G HESPERIDIN

Last Update:
Dec. 12, 2014

Page:
3/3

- **Ames test:** Negative
- **Patch test:** None⁷

¹ Rats; ² Rats (2g/kg/day); ³ Rabbits (0.5g/animal); ⁴ Guinea pigs (intradermal 5%, dermal 50%); ⁵ Guinea pigs (10, 15, 25, 50%); ⁶ Rabbits (0.1g/animal); ⁷ Humans (1, 10 and 20%)

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Not available
- **Environmental fate:** Readily biodegradable
- **Products of biodegradation:** Possibly hazardous degradation products are not likely.

13. DISPOSAL CONSIDERATIONS

- **Dispose according to local, regional and national authority requirements.**

14. TRANSPORT INFORMATION

- **Land-Road/Railway:** This product is not classified according to ADR/RID
- **Inland Waterways:** This product is not classified according to ADNR
- **Sea:** This product is not classified according to IMDG
- **Air:** This product is not classified according to IATA

15. REGULATORY INFORMATION

- **Enzymatically Modified Hesperidin (same as α G Hesperidin) is listed in Japan's Specifications and Standards for Food additives published in 2007 by the Ministry of Health and Welfare. Manufactured in compliance with Japan's Pharmaceutical Affairs Act.**

16. OTHER INFORMATION

- N/A

"The information provided in this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and is, in our opinion consistent with the state of general scientific and technical knowledge at that date, but we cannot accept liability for a loss, injury or damage which may result from its use.

In compiling the MSDS we have taken into account all proper application of the material of which we are aware and any user of the material should consult us before applying it to any novel or unusual use.