

Siligel

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Date: 04 / 09 / 2021

Version: 1

Cancels and replaces version:

SECTION 1. IDENTIFICATION

Product Name/Identifier Siligel

Recommended Use Raw material for cosmetic formulations

Restrictions on Use None known

Emergency Telephone # 1-704-276-7099 (Mon-Fri: 8:00AM – 5:00PM EST)

SECTION 2. HAZARD(S) IDENTIFICATION

Classification:

GHS / CLP

Basis for Classification: Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

USA

OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

Europe

Basis for Classification: -According to present data no classification and labeling is required according to Reg. (EC) No 1272/2008.
-This product is not classified as hazardous to health or environment according to the CLP regulation.

Labeling Elements:

Pictograph: No hazard symbol expected

Hazard statements/Signal Word: Not applicable

Precautionary statements: P233: Keep container tightly closed
P281: Use personal protective equipment as required
P402: Store in a dry place
P404: Store in a closed container
P410: Protect from sunlight
P411: Store at temperatures not exceeding 25°C

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Other hazards which do not result in classification:

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.

By hygroscopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 0; Normal Material

Flammability: Rating 0, Will Not Burn

Reactivity: Rating 0, Stable

Other Hazard Information: None

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name: Xanthan Gum & Lecithin & Sclerotium Gum & Pullulan

Generic name:

Chemical Family: Mixture

Description: Mixture: consisting of the following components. This section describes all components of the mixture

<u>Substance</u>	<u>CAS Numbers</u>	<u>EC Numbers</u>
Xanthan Gum	11138-66-2	234-394-2
Lecithin	8002-43-5	232-307-2
Sclerotium Gum	39464-87-4	254-464-6
Pullulan	9057-02-7	232-945-1

Formula: Not applicable

SECTION 4. FIRST-AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Move to fresh air from exposure area. Get medical attention for any breathing difficulty.

Skin contact: Wash with soap and plenty of water. Get medical advice if irritation develops.

Eye contact: Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.

Ingestion: This product should not be toxic. No danger which required special measures of first aid.

Protection of first-aiders: No special protection required.

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SECTION 5. FIRE-FIGHTING MEASURES

Fire and explosion hazards:	Not considered to be a fire and explosion hazard
Extinguishing media:	
Suitable:	Dry chemicals, foam and carbon dioxide
Not suitable:	None known
Fire fighting:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low area Avoid dumping of extinguishing water in the environment. Do not attempt to fight the fire without suitable protective equipment.
Protection for fire-fighters:	Boots, gloves, goggles and self-contained breathing apparatus.
Hazards arising from the chemical:	In the action of heat or during combustion, may form toxic and irritating vapors (carbon oxides (CO and CO ₂) and nitrogen NOx).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes. Personal Protective Equipment: -Protective goggles
Environmental precautions:	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system
Methods for cleaning up:	
Recovery:	Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material. Sweep or vacuum up any powder and place in a clearly labeled waste container, avoiding dust formation.
Cleaning/Decontamination:	Wash non-recoverable remainder with large amounts of water. Dispose of at a licensed waste collection plant.
Disposal:	For disposal of residues refer to sections 8 & 13.

SECTION 7. HANDLING AND STORAGE

Handling

Technical measures:	Hygroscopic powder. Labeling: Keep out of the reach of children.
Measures:	For industrial use, only as directed.
Safe handling advice:	Close packaging well after use. Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. Avoid storage near feed or food stuff. No smoking.

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Storage

Technical measures: Keep container closed.
Recommended Storage Conditions: Store in a dry place at temperatures not exceeding 25°C. Protect from light and humidity.

Incompatible products: Avoid contact with strong oxidizers, strong acids and bases.
Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

Packaging: Original packaging

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements: Ensure adequate ventilation

Control parameters

Occupational exposure Limits:

France: Not Determined
ACGIH: Not Determined
Korea: Not Determined
UK: Not Determined

Personal Protective Equipment:

Respiratory protection: In case of good ventilation no personal respiratory protective equipment is required. If dust occurs: anti-dust mask P1 type (EN 143).

Hand protection: Protective gloves made of rubber. The protective gloves must comply with the specifications of EC Directive 89/686/EEC and the resultant standard EN 374.

Eye protection: Safety glasses with side shields. Avoid wearing contact lenses.

Skin and Body Protection: Suitable protective clothing

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No particular measures

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder

Color: Beige

Odor: Characteristic

Vapor density: Not applicable

Boiling Point: Not applicable

Melting point: Not determined

Flash point: Not determined

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Auto-inflammation temperature: Not determined

Partition Coefficient (n-octanol/water): Not determined

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable at temperatures lower than 25°C and under ordinary conditions of use and storage. Avoid humidity.

Hazardous reactions: None known

Conditions to avoid: No dangerous reactions known under use of normal conditions. Avoid extreme heat and humidity.

Materials to avoid: Strong oxidizing agents, strong acids and bases

Hazardous decomposition products: During combustion or thermal decomposition (pyrolysis), it may release toxic and irritating vapors (NO_x, CO, CO₂) and various hydrocarbon fragments.

SECTION 11. TOXICOLOGICAL INFORMATION

Dermal: Non-Irritant (48 hour occlusive single patch test)
Ocular: Moderately Irritant (HET-CAM)

Acute toxicity data: Not Determined – According to our knowledge, no specific risk when handled in accordance with good occupational hygiene and safety practices.

Sensitization: Non-Sensitizer (OECD 442D)
h-CLAT: Sensitizing (OECD 442E)

Mutagenicity: Non-Mutagenic (AMES OECD 471)
Phototoxicity: No phototoxic potential could be expected

The following data refer to Xanthan Gum:

Acute toxicity: > 45,000 mg/Kg (LD₅₀, rat, oral)
> 1,000 mg/Kg (LD₅₀, mouse, oral)
> 20,000 mg/Kg (LD₅₀, dog, oral)

The following data refer to Lecithin:

Acute toxicity: > 16,000 mg/Kg – Not toxic (LD₅₀, rat, oral, CIR report (IJT 20(S1): 21-45,2001)

The following data refer to Sclerotium Gum:

Acute toxicity: Short feeding studies with rats and dogs have not shown any signs of toxicity

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The following data refer to Pullulan:

Acute toxicity: > 14,280 mg/Kg (LD₅₀, mice, oral)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Effects on the aquatic environment: > 1 g/L (EC₅₀, *Daphnia magna*, 48h, OECD 202)
> 100 mg/L (E_rC₅₀, *Pseudokirchnerilla subcapitata*, 72h, OECD 201)

Biodegradability:

Persistence: Easily biodegradable (OECD 301 D)

Bioaccumulation:

Octanol / water partition coefficient: Not Determined

The following data refer to Xanthan Gum:

Ecotoxicity: > 100 mg/L (EC₅₀, *Daphnia (Daphnia magna)*, 48h, OECD 202)

Biodegradability: Easily biodegradable (86.94% in 8 days, OECD 301 A)

The following data refer to Lecithin:

Biodegradability: Easily biodegradable (OECD 301D)

The following data refer to Sclerotium Gum:

Ecotoxicity: > 100 mg/L (EC₅₀, *Daphnia (Daphnia magna)*, 48h, OECD 202)

Biodegradability: Easily biodegradable (98.2% in 28 days, OECD 301 A)

The following data refer to Pullulan:

Ecotoxicity: 117.5 mg/L (EC₅₀, *Daphnia (Daphnia magna)*, 48h, OECD 202)

Biodegradability: Easily biodegradable (94.5% in 28 days, OECD 301 A)

SECTION 13. DISPOSAL CONSIDERATIONS

Residues from product

Prohibition: Do not allow the product to be released into the Environment.
Destruction/Disposal: Dispose of material and packaging in accordance with relevant local Regulations. Waste disposal according to EC directives 75/442/EEC and 91/689/ECC on waste and hazardous waste in their latest versions.

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Contaminated packaging

Decontamination/cleaning:

Destruction/Disposal:

Empty and non-polluted packaging may be recycled.

Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: None

UN Shipping Name: None

Transport Hazard Class: Not classified as dangerous for transport

Land (rail/road):

Material is not restrictive for land transport and is not regulated by ADR/RID

Sea:

Material is not restrictive for sea transport and is not regulated by IMO/IMDG

Air:

Material is not restrictive for air transport and is not regulated by ICAO/IATA

Marine Pollutant: No

Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers
This material is not dangerous or hazardous

Special Precautions for User: None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15. REGULATORY INFORMATION

Labeling:

EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

Other regulations:

EINECS inventory status:

Xanthan Gum: 234-394-2

Lecithin: 232-307-2

Sclerotium Gum: 254-464-6

Pullulan: 232-945-1

TSCA inventory status:

Exempt

AICS inventory status:

Not Listed: 39464-87-4

Listed: 11138-66-2 & 8002-43-5 & 9057-02-7

Canadian (CEPA DSL) inventory status:

Listed as Xanthan gum (DSL) & Lecithins (DSL) & Scleroglucan (DSL) &

Japan (MITI list):

Xanthan Gum & Lecithin & Sclerotium Gum & Pullulan

Korea:

Xanthan Gum & Lecithin & Sclerotium Gum & Pullulan

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Other regulations (Continued):

China inventory status:	Xanthan Gum & Lecithin & Sclerotium Gum & Pullulan
Philippines inventory status:	Not Listed: Sclerotium Gum (39464-87-4) & Pullulan (9057-02-7) Listed as Xanthan gum & Lecithins

*Listed on 2010 INCI Standard Chinese Name Directory

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

SECTION 16. OTHER INFORMATION

Prohibited uses: For specific uses, food industry, ask the manufacturer for more information.

Last Revision Date: N/A

Preparation Date: 04/09/2021

MSDS summary of changes No deletion, addition or revision to date

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.

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