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SECTION 1. IDENTIFICATION

Product Name/Identifier	L-Arginine Powder
Product Code	FSSR00023
Recommended Use	Ingredients/Raw materials used in the manufacturing of Cosmetic Products'
Restrictions on Use	None
Supplier Site	Formulator Sample Shop, LLC
Address	135 Joshua Court Lincolnton, NC 28092, USA
Telephone No. (24hrs)	1-704-276-7540
Emergency Telephone #	1-704-276-7540 (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 32°C

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Other hazards which do not result in classification:

L-Arginine is an alkaline substance. Therefore, it may cause eye and skin irritation. It will increase the biological oxygen demand (BOD) of water.

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

Results of PBT and vPvB assessment:

-PBT: Not applicable

-vPvB: Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name: L-Arginine Powder

Generic name: N/A

Chemical Family: Powder

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>	<u>Percentage</u>
L-Arginine Powder	74-79-3	200-811-1	99.00 – 101.00%

Formula: $C_6H_{14}N_4O_2$

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. Rinse mouth with water.

Skin contact: Rinse with soap and 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. Remove contacts.

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Ingestion: Rinse mouth with water. Consult with a physician.**Protection of first-aiders:** No special protection required.

SECTION 5. FIRE-FIGHTING MEASURES**Fire and explosion hazards:** Not considered to be a fire and explosion hazard**Extinguishing media:****Suitable:** Water spray, 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.**Protection for fire-fighters:** Boots, gloves, goggles.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal precautions:** Avoid contact with eyes. If spilled, place water on the powder to avoid dust.
*Sweep into a closed container.**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:** Wash away spilled area with plenty of water.
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 water.**Disposal:** For disposal of residues refer to sections 8 & 13.

SECTION 7. HANDLING AND STORAGE**Handling****Technical measures:** Labeling: Keep out of the reach of children.**Measures:** For industrial use, only as directed.**Safe handling advice:** Wash hands after use. Avoid storage near feed or food stuff.

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Storage

Technical measures: Keep container closed in a dry area.
 Recommended Storage Conditions: Avoid humidity, sunlight and exposure to high temperatures.

Incompatible products: Avoid contact with strong oxidizing agents.
 Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

Packaging: Product may be packaged in normal commercial packaging.
 Packaging materials: Recommended - Polypropylene & High Density Polyethylene

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

Surveillance procedures: Not Determined
 Engineering measures: Not Determined

Personal Protective Equipment:

Respiratory protection: Local exhaust; dust masks or appropriate respirator.
 Hand protection: Protective gloves made of rubber or neoprene.
 Eye protection: Chemical safety goggles.
 Collective emergency equipment: Eye fountain.
 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: Fine Powder
Color: White

Odor: Characteristic

pH (10% in Solution): 10.5 – 12.0

Heavy Metals: < 20 ppm
Lead: < 10 ppm
Arsenic: < 2 ppm

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Microbial Content:	< 100 CFU/g; No pathogens
Yeast & Mold:	< 100 CFU/g
Gram Negative Bacteria:	0 CFU/g
Specific Gravity:	Not determined
Vapor density:	Not applicable
Boiling Point:	Not applicable
Freezing Point:	Not applicable
Melting point:	244°C
Flash point:	Not applicable
Oxidizing properties:	Non oxidizing material according to EC criteria.
Solubility:	14.8 g / 100 g H ₂ O (20°C)
In organic solvents:	Not determined
Log P:	Not determined

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life
Hazardous reactions:	Nitrogen oxides (Combustion)
Conditions to avoid:	No dangerous reactions known under use of normal conditions. Avoid extreme heat. Avoid sunlight and moisture.
Materials to avoid:	Humidity and high temperature. In presence of moisture, will oxidize and darken.
Hazardous decomposition products:	Nitrogen oxides (Combustion)

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion:	Not Determined
Dermal:	May cause skin irritation. No specific data available
Ocular:	May cause eye irritation. No specific data available
Inhalation:	Not Determined
Acute toxicity data:	Not Determined
Sensitization:	Non-Primary Sensitizers
Repeated dose toxicity:	No known effects
Subacute to chronic toxicity:	Not Determined

Additional Toxicological Information: This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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Specific effects:

Carcinogenicity:	No known effects
Mutagenicity:	No known effects
Reproductive toxicity:	No known effects
Neuro-toxicity:	No known effects

For more information: Does not present any particular risk on handling under normal conditions of good occupational hygiene practice.

This product has not been tested for the following:

- Primary cutaneous and corrosive irritation
- Acute oral toxicity
- Mutagenicity/genotoxicity

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

Effects on the aquatic environment: Not Determined

Biodegradability:

Persistence: BOD = 0.645 g/g

Bioaccumulation:

Octanol / water partition coefficient: Not Determined

Mobility:

Precipitation:

Expected behavior of the product: Ultimate destination of the product: Soil & sediment.

SECTION 13. DISPOSAL CONSIDERATIONS**Residues from product**

Prohibition:	Do not allow the product to be released into the Environment.
Destruction/Disposal:	Dispose of in accordance with relevant local regulations.

Contaminated packaging

Decontamination/cleaning:	Cleaning is not required prior to disposal.
Destruction/Disposal:	

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

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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

Further regulations

United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40
 Workplace Exposure Limits (revised annually)

Korea regulations: Industrial safety and hygiene regulation: No
 Hazardous material control regulation: No
 Fire prevention regulation: No

Germany: Regulations concerning the classification of hazards for water (WGK – Wassergefährdungsklasse:):
 - WGK 1 – Low hazard to waters (VwVwS 17 May 1999)

Other regulations:

EINECS inventory status: Arginine: 200-811-1
 TSCA inventory status: Exempt
 AICS inventory status: 74-79-3

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Other regulations (Continued):

Canadian (CEPA DSL) inventory status: Listed as @YL-Arginine
Japan (MITI list): Arginine
Korea: Arginine
China inventory status: Arginine
Philippines inventory status: Listed as L-Arginine

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: 01/02/2024

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.