

Silk Protein, Hydrolyzed

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation

Revision Date: 25-Apr-2024
Supersedes: 20-Dec-2018

1 PRODUCT & COMPANY IDENTIFICATION

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|----------------------|--------------------------|------------------------------------|--|
| Product Name: | Silk Protein, Hydrolyzed | Distributor: | MakingCosmetics Inc. |
| Synonyms: | No data available | Address: | 10800 231 st Way NE Redmond, WA 98053 (USA) |
| INCI Name: | Water, Hydrolyzed Silk | Phone / Fax: | 425-292-9502 / 425-292-9601 |
| CAS Number: | 7732-18-5, 96690-41-4 | Web: | www.makingcosmetics.com |
| Formula: | No data available | | |
| Product Form: | Liquid | | |
| Product Use: | Cosmetic use | Emergency Telephone Number: | 1-800-424-9300 (Chemtrec) |

2 HAZARDS IDENTIFICATION

| | | | | | | | | | | | | | |
|--------------------------------------|---|--------|-----|-----|--------------|-----|-----|------------|-----|-----|-----------------|-----|--|
| GHS Classification: | Not classified. | | | | | | | | | | | | |
| GHS Labeling: | Not a dangerous substance according to GHS. | | | | | | | | | | | | |
| GHS Hazard Pictograms: | None. | | | | | | | | | | | | |
| GHS Hazard Statements: | None. | | | | | | | | | | | | |
| GHS Precautionary Statements: | None. | | | | | | | | | | | | |
| Potential Health Hazards: | Eyes: Not expected to be an irritant. Inhalation: Not expected to be an irritant. Skin: Not expected to be an irritant. Ingestion: Not expected to be an irritant. | | | | | | | | | | | | |
| NFPA Ratings (704): | <table border="1"> <tr> <td>Health</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Flammability</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Reactivity</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Specific Hazard</td> <td>N/A</td> <td></td> </tr> </table> | Health | N/A | N/A | Flammability | N/A | N/A | Reactivity | N/A | N/A | Specific Hazard | N/A | |
| Health | N/A | N/A | | | | | | | | | | | |
| Flammability | N/A | N/A | | | | | | | | | | | |
| Reactivity | N/A | N/A | | | | | | | | | | | |
| Specific Hazard | N/A | | | | | | | | | | | | |

3 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CAS No.</u> | <u>Weight %</u> | <u>Molecular Weight</u> |
|-------------------|----------------|-----------------|-------------------------|
| Water | 7732-18-5 | ≥ 85.0 % | Not Available |
| Hydrolyzed Silk | 96690-41-4 | 8.0 - 14.0% | Not Available |
| Benzyl alcohol | 100-51-6 | 0.5 - 0.8% | Not Available |
| Potassium sorbate | 24634-61-5 | 0.1 - 0.2% | Not Available |
| Sodium benzoate | 532-32-1 | 0.1 - 0.2% | Not Available |

4 FIRST AID MEASURES

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| Eyes: | Flush with water. seek medical advice if discomfort persists |
| Inhalation: | Not applicable, avoid breathing liquid or aerosols of material. |
| Skin: | Wash material off the skin with soap and water. Seek medical attention if necessary. |
| Ingestion: | Drink water. Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Seek medical attention. |
| General Notes: | No immediate medical treatment normally needed. |

5 FIRE-FIGHTING MEASURES

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| Suitable (and unsuitable) extinguishing media: | May be combustible at high temperature. Use appropriate media (dry chemical, CO ₂ , foam, halon, water spray (fog)) for adjacent fire. Do not use direct or heavy water stream to fight fire as it may splash burning liquid. |
| Special protective equipment & precautions for firefighters: | Wear self-contained breathing apparatus with full-face piece and full protective clothing, including eye protection and boots. |

Flash Points: > 250°F
Specific hazards arising from the chemical: None listed. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Ensure adequate ventilation. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Non-hazardous but avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.

Methods and material for containment and cleaning up: Pick up with absorbent material and collect for disposal. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling: Keep working place well ventilated; no special precautions are needed under normal use conditions. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.

Conditions for safe storage, incl. any incompatibilities: Store at room temperature in tightly sealed containers. Avoid temperatures above 40°C (104°F). Optimum storage temperature is 24°C (75°F) or lower. Avoid exposure to sunlight for prolonged periods. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Component</u> | <u>Exposure Limits</u> | <u>Basis</u> | <u>Entity</u> |
|--------------------------|------------------------|---------------|---------------|
| Silk Protein, Hydrolyzed | No limits established | Not available | Not available |

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes: Wear chemical goggles with side splash protection.

Inhalation: No special precautions for normal use.

Body: Wear protective gloves. Full protective clothing is not required under normal conditions of use.

Other: General mechanical ventilation is acceptable. Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Launder contaminated clothing before re-use.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
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| Appearance: | Clear to slightly hazy liquid | Vapor Pressure: | Not determined |
| Odor: | Characteristic | Vapor Density: | Not determined |
| Odor Threshold: | No data available | Evaporation Rate: | Not applicable |
| Color: | Amber | Flammability: | Not flammable |
| Molecular Weight: | No data available | Upper/lower Explosive Limit: | Not applicable |
| pH: | 4.0 - 5.5 | Flash Point: | > 250°F |
| Boiling Point: | 215°F (101.6°C) | Specific Gravity at 25°C: | 1.04 |
| Melting/Freezing Point: | Not determined | Water Solubility: | Complete |
| Relative Density: | No data available | Auto-Ignition Temperature: | No data available |
| Partition Coefficient: n-octanol/water: | No data available | Decomposition Temperature: | No data available |
| Viscosity (cP): | Not determined | Explosive Properties: | None |
| Oxidizing Properties: | None | Metal Corrosion: | No data available |

10 STABILITY AND REACTIVITY

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| Reactivity: | Not reactive under normal conditions of use. |
| Chemical Stability: | No known hazardous reactions. |
| Hazardous Polymerization: | No data available. |
| Conditions to Avoid: | Gross bacterial contamination. |
| Incompatible Materials: | Concentrated nitric or sulfuric acid, strong oxidizing agents. |
| Hazardous Decomposition Products: | Burning can produce smoke, CO, CO ₂ , ammonia, and other products of incomplete combustion |
| Possible Hazardous Reactions: | None known. |

11 TOXICOLOGICAL INFORMATION

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| Acute Toxicity: | Oral LD50 is anticipated to be >5g/kg based on testing of similar materials. |
| Skin: | No data available. |
| Eyes: | No data available. |
| Inhalation: | No data available. |
| Ingestion: | No data available. |
| Carcinogenicity: | None of the components are listed as a carcinogen by IARC, NTP, OSHA, ACGIH or the EU Substances Directive. |
| Teratogenicity: | No data available. |
| Germ Cell Mutagenicity: | Not expected to present a germ cell mutagenicity hazard. |
| Embryotoxicity: | No data available. |
| Specific Target Organ Toxicity: | No data available. |
| Reproductive Toxicity: | Not expected to affect reproduction or development. |
| Sensitization: | Not determined. |
| Corrosivity: | This is not a corrosive product. |

12 ECOLOGICAL INFORMATION

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| Ecotoxicity: | No ecotoxicity data available. |
| Aquatic Vertebrate: | No data available. |
| Aquatic Invertebrate: | No data available. |
| Terrestrial: | No data available. |
| Persistence and Degradability: | No data available. |
| Bioaccumulative Potential: | Not expected to be bio-accumulative in aquatic organisms. |
| Mobility in Soil: | Since the product is completely soluble in water, it is expected to be highly mobile in soil. |
| PBT and vPvB Assessment: | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Other Adverse Effects: | None known. |

13 DISPOSAL CONSIDERATIONS

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| Waste Residues: | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product. |
| Product Containers: | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container. |

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

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| DOT (Dept. of Transportation, USA): | Not regulated as dangerous goods. |
| TDG (Transportation of Dangerous Goods, Canada): | No data available. |
| IMDG (International Maritime Dangerous Goods): | Not regulated as dangerous goods. |
| IATA (International Air Transport Association): | Not regulated as dangerous goods. |
| ICAO (International Civil Aviation Organization): | Not regulated as dangerous goods. |
| ADR/RID/ADN (EU Land Transportation): | Not regulated as dangerous goods. |

15 REGULATORY INFORMATION

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| TSCA Inventory Status: | CAS no. 96690-41-4 not listed. |
| Canada (DSL/NDSL): | All components of this product are listed on the DSL/NDSL. |
| EU (EINECS/ELINCS/NLP): | All components of this product are listed on the EINECS Inventory. |
| China (IECSC): | All components of this product are listed on the IECSC. |
| Australia (AICS): | All components of this product are listed on the AICS. |
| Japan (ENCS): | All components are listed on the Japanese Existing and New Chemical Substances Inventory. |
| Philippines (PICCS): | All components of this product are listed on the PICCS. |
| Korea (KECI): | All components of this product are listed on the ECL. |
| Chemical Safety Assessment: | No Chemical Safety Assessment has been carried out for this mixture by the supplier. |

16 OTHER INFORMATION

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| Revision Date: | 25-Apr-2024 |
| Compliance: | This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 |
| Disclaimer: | This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use. |