



Silk Protein, Hydrolyzed

SECTION 1 :: PRODUCT IDENTIFICATION

Product Name: Silk Protein, Hydrolyzed

INCI Name: Hydrolyzed Silk

Distributed by:

Saffire Blue, Inc.

1444 Bell Mill Road

Tillsonburg, ON N4G 4G9 Canada

Tel: 519-286-0295 • Toll Free: 877-248-1115

SECTION 2 :: INGREDIENTS

CAS/EU number

CAS:96690-41-4, 7732-18-5 EINECS: 306-235-8, 231-554-6

Chemical / INCI Name

Hydrolyzed Silk

SECTION 3 :: HAZARDS IDENTIFICATION

Non-Hazardous

Inhalation

No adverse effect expected.

Skin Contact

No adverse effect expected.

Eye Contact

May cause mild irritation.

Ingestion

Excessive ingestion may cause mild nausea or abdominal discomfort.

Overexposure

No adverse effect expected. This material is generally considered non-toxic.

SECTION 4 :: FIRST AID MEASURES

General Advice

No hazard which requires special first aid measures

Inhalation

Remove to fresh air.

Skin Contact

If irritation occurs, wash with soap and water.

Eye Contact

Flush eyes with copious amounts of water and observe. Consult

physician if irritation occurs.

Ingestion

Drink 2 glasses of water and induce vomiting. Call physician

and observe for signs of illness.

Overexposure

No adverse effect expected.

SECTION 5 :: FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, CO2, dry chemical, alcohol or universal type foams applied by manufacturer's instructions.

Extinguishing media which must not be used for safety reasons

No special requirements

Unusual fire and explosion hazards

None

Special protective equipment for fire-fighters

Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus.

Specific methods

None known



Silk Protein, Hydrolyzed

SECTION 6 :: ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation.
Environmental precautions	Non-hazardous
Methods for clean-up government regulations	Flush with hot water or cover with absorbent. Collect for disposal. Observe all

SECTION 7 :: HANDLING AND STORAGE

Handling	Keep working place well ventilated, no special cautions
Storage	Store at room temperature in tightly closed containers.

SECTION 8 :: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values
Exposure controls

Occupational exposure controls

Ventilation: Mechanical ventilation is acceptable.

Respiratory Protection

Not required under usual conditions of use. However, if exposure potential exists, refer to NIOSH Criteria Guides to determine proper equipment.

Protective Clothing

Normal work gloves and chemical operator's goggles.

SECTION 9 :: PHYSICAL AND CHEMICAL PROPERTIES

General Information (appearance, odor)

Physical state	Liquid
Color	Clear to slightly hazy, yellow to amber
Odor	Characteristic

Important health safety and environmental information

pH	4.0 – 6.0
Boiling point/range	215°F
Flash point	Not applicable
Vapor Pressure (mm-Hg)	Not determined
Vapor Density (AIR=1)	Not determined
Solubility	
Water solubility	Complete
% Volatile	Approximately 90%
Specific Gravity (H₂O = 1)	1.04 @ 25°C (77°F)



Silk Protein, Hydrolyzed

SECTION 10 :: STABILITY AND REACTIVITY

Stability	Stable
Incompatibility	Concentrated nitric or sulfuric acid; strong oxidizing agents.
Conditions to Avoid:	Gross bacterial contamination
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Burning can product smoke, CO, CO ₂ , and/or ammonia

SECTION 11 :: TOXICOLOGICAL INFORMATION

Not tested on laboratory animals. LD 50's anticipated to be greater than 5G/kg based on testing of similar products

SECTION 12 :: ECOLOGICAL INFORMATION

Biodegradable, no data available

SECTION 13 :: DISPOSAL CONSIDERATIONS

Small amounts may be flushed to sewer. Material is very biodegradable. Otherwise, dispose of in accordance with all Federal, State and Local regulations for non-hazardous substances

SECTION 14 :: TRANSPORT INFORMATION

Not classified as hazardous for transport.
HMIS Rating: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant
Health: 0 Flammability: 0 Reactivity: 0

SECTION 15 :: REGULATORY INFORMATION

Non-Hazardous



Silk Protein, Hydrolyzed

SECTION 16 :: OTHER INFORMATION

Text of R phrases mentioned in Section 2	None
Training advice	Read the safety data sheet before using the product
Recommended restrictions	None

Disclaimer

The information contained in this Certificate of Analysis and Material Safety Data Sheet are obtained from current and reliable sources. As the ordinary or otherwise use(s) of this product is outside the control of Saffire Blue Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained.

Saffire Blue Inc. expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, Saffire Blue Inc. as to the fitness for any use should consider nothing contained herein as a recommendation. Saffire Blue Inc. is not responsible for any liabilities on claims on the value of the goods and does not include any consequential loss.