MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : **Erinacine A**

CAS No. **156101-08-5**

REACH No. : **A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory tests

1.3 Details of the supplier of the safety data sheet

Company : Instytut Urządzeń Ekstrakcyjnych sp. z o.o.
ul. Zrembowska 7
06-200 Maków Mazowiecki, POLAND
Phone: +48 504 020 969
E-mail address : kontakt@extracthome.pl

1.4 *Emergency telephone number*

Emergency Phone: 112, +48 504 020 969

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance: **Erinacine A**

Purity: **min. 99% (HPLC, NMR)**

Formula: **$C_{25}H_{36}O_6$**

Molecular Weight: **432.55**

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Flush eyes with water as a precaution.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store in cool and dark place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Components with workplace control parameters *8.2 Exposure controls*

Appropriate engineering controls General industrial hygiene practice.

Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Body Protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form:	Pale yellow solid
b) Odor	None
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	72-74 °C
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available

k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	Insoluble
o) Partition coefficient n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	Non explosive
t) Oxidizing properties	Non oxidizing
9.2 Other safety information	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, strong acids, strong bases

10.6 Hazardous decomposition products

Other decomposition products	**No data available**
Hazardous decomposition products formed under fire conditions.	**Nature of decomposition products not known.**
In the event of fire: see section 5	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Non-toxic[1]
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: Not available

[1] I. Chen Li, Yen Lien Chen, and others, 'Evaluation of the Toxicological Safety of Erinacine A-Enriched Hericium Erinaceus in a 28-Day Oral Feeding Study in Sprague-Dawley Rats', *Food and Chemical Toxicology*, 70 (2014), 61–67 <https://doi.org/10.1016/j.fct.2014.04.040>.
I. Chen Li, Wan Ping Chen, and others, 'Acute and Developmental Toxicity Assessment of Erincine A-Enriched Hericium Erinaceus Mycelia in Sprague–Dawley Rats', *Drug and Chemical Toxicology*, 41.4 (2018), 459–64 <https://doi.org/10.1080/01480545.2017.1381110>.
Hariprasath Lakshmanan and others, 'Haematological, Biochemical and Histopathological Aspects of Hericium Erinaceus Ingestion in a Rodent Model: A Sub-Chronic Toxicological Assessment', *Journal of Ethnopharmacology*, 194 (2016), 1051–59 <https://doi.org/10.1016/j.jep.2016.10.084>.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: -	**IMDG: -**	**IATA: -**

14.2 UN proper shipping name

ADR/RID:	**Not dangerous goods**
IMDG:	**Not dangerous goods**
IATA:	**Not dangerous goods**

14.3 Transport hazard class(es)

ADR/RID: -	**IMDG: -**	**IATA: -**

14.4 Packaging group

ADR/RID: -	**IMDG: -**	**IATA: -**

14.5 Environmental hazards

ADR/RID: no	**IMDG Marine pollutant: no**	**IATA: no**

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Further information

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Instytut Urządzeń Ekstrakcyjnych sp. z o.o. shall not be held liable for any damage resulting from handling or from contact with the above product. For further information please contact: kontakt@extracthome.pl.