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Trade name:

Thymosin Alpha 1

Chemical name: Thymosin Alpha 1 Acetate

PRINTING DATE:	DATE OF COMPILATION:	REVISION:
09.04.2026	09.04.2026	09.04.2026

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: Thymosin Alpha 1

Chemical name: Thymosin Alpha 1 Acetate

CAS Number: 62304-98-7

EINECS Number: -

Index number: -

Registration number:

Registration number for this substance has not yet been assigned or the substance is manufactured / imported in a volume that does not require its registration.

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

Sector of Use: SU24 — Scientific research and development

Application of the substance / mixture:

Raw material for research and development. (see more labels, or product / data sheet)

Not recommended uses: All except above mentioned uses.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier:

ViraChem j.d.o.o.

Savska cesta 42

10000 Zagreb, Croatia

OIB: 73782597071 | MBS: 060500406

E-mail: info@virachemical.com

Web: virachemical.com

Further information obtainable from: info@virachemical.com

1.4 Emergency telephone number

Poisons Centres in Europe (consultation in case of acute intoxication):

https://poisoncentres.echa.europa.eu/appointed-bodies

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

Additional information:

Although the product is not classified as dangerous, it may show signs of danger (see sections 9-12 SDS).

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

Precautionary statements: Void

2.3 Other hazards

Results of PBT and vPvB assessment

PBT / vPvB: According to the information available, the product does not meet criteria such as PBT (persistent, bioaccumulative and toxic) or as vPvB (very persistent, very bioaccumulative) in accordance with Annex XIII of REACH (substance on its own or in a mixture).

Determination of endocrine-disrupting properties:

According to the information available, the product does not meet the criteria for having endocrine disrupting properties (substance on its own or in a mixture).

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS No.: 62304-98-7

Description: Thymosin Alpha 1 Acetate

Additional information:

Sequence: Ac-Ser-Asp-Ala-Ala-Val-Asp-Thr-Ser-Ser-Glu-Ile-Thr-Thr-Lys-Asp-Leu-Lys-Glu-Lys-Lys-Glu-Val-Val-Glu-Glu-Ala-Glu-Asn-OH

Formula: $C_{129}H_{215}N_{33}O_{55} \cdot xCH_3COOH$

Molecular weight: 3108.32 g/mol (free base)

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General information:

Remove contaminated clothing and shoes. In case of any uncertainty or if symptoms occur, seek medical assistance and show this SDS or label. Protect your health. Treatment is symptomatic.

After inhalation: Ensure supply of fresh air. In the event of symptoms refer for medical treatment.

After skin contact: Wash off with soap and water. Remove contaminated clothing. Seek medical help if necessary.

After eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical help if necessary.

After swallowing: Wash out mouth with plenty of water. Do not induce vomiting. Call doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available (for more see sections 2 and 11).

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media

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Suitable extinguishing agents:

Carbon dioxide, dry extinguisher, alcohol resistant foam (large fire). Cool container at risk with water jet spray. Fire-extinguishing activities according to surroundings.

Unsuitable extinguishing agents: Not determined.

5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Carbon dioxide (CO_2), Carbon monoxide (CO), Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Protective equipment: Do not stay in dangerous zone without self-contained breathing apparatus. Use chemical overall and equipment.

Additional information:

Cool container with spray water from a safe distance. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Do not inhale dust. Ensure supply of fresh air in enclosed rooms. Avoid contact with eyes and skin.

6.1.2 For emergency responders:

More info in section 5.

6.2 Environmental precautions

Do not discharge into drains, surface waters or groundwater.

6.3 Methods and material for containment and cleaning up

Spilled product: mechanically collect and place in suitable containers. Disposal governed by regulations in section 13; see exposure values in section 8. Thoroughly wash affected area and used tools with suitable detergent — do not use solvents.

6.4 Reference to other sections

See section 7 for safe handling. | Section 8 for personal protective equipment. | Section 13 for safe disposal.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use, check sections 2, 6, 8 and 11. Do not breathe aerosol/dust. Eating, drinking and smoking, as well as food storage, are prohibited in the work room.

Fire and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage requirements:

Temperature: Store at -20 °C.

Store only in the original, properly sealed and marked containers.

Common storage facility:

Store away from foodstuffs.

Do not store with incompatible materials (see section 10).

Further storage conditions: None.

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7.3 Specific end use(s)

Right usage of product is enclosed in product documentation or on label.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

General maximum dust: 10 mg/m³ for respirable dust. See local regulations.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

The usual precautionary measures are to be adhered to when handling chemicals.

8.2.2 Individual protection measures — personal protective equipment:

Respiratory protection: Normally not needed. In case of insufficient ventilation or excess of permitted exposure limits, use appropriate respiratory mask with filter against solid aerosols. Filter P (EN 14387).

Hand protection: Protective gloves (EN 374) — Nitrile rubber, NBR. Recommended thickness: >= 0.4 mm. Penetration time: >= 480 min (EN 374).

Eye / face protection: Safety goggles (EN 166).

Skin protection: Protective clothing with long sleeves (EN ISO 6529) and safety shoes (EN ISO 20345 / 20346 / 20347).

Thermal hazards: Void.

8.2.3 Environmental exposure controls:

Close packaging properly during and after work. Store containers stably. Avoid tipping over unsecured packaging. Clean contaminated packaging from contaminant.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid / Powder

Colour: Not determined.

Odour: No further relevant information available.

Odour threshold: Not determined.

Melting point / freezing point: Undetermined.

Boiling point / initial boiling point: Undetermined.

Flammability: Product is not flammable.

Lower explosion limit: Not determined.

Upper explosion limit: Not determined.

Flash point: Not applicable.

Auto-ignition temperature: Not determined.

Decomposition temperature: Not determined.

pH: Not applicable.

Kinematic viscosity: Not applicable.

Dynamic viscosity: Not applicable.

Solubility in water: No data available.

Partition coefficient n-octanol/water (log value): Not determined.

Vapour pressure: Not applicable.

Absolute density: Not determined.

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Relative vapour density: Not applicable.
Particle characteristics: See item 3.
Explosive properties: Product does not present an explosion hazard.
Surface tension: Not determined.
VOC (EC): Not determined.
Evaporation rate: Not applicable.
Explosives: Void
Flammable gases: Void
Aerosols: Void
Oxidising gases: Void
Gases under pressure: Void
Flammable liquids: Void
Flammable solids: Void
Self-reactive substances and mixtures: Void
Pyrophoric liquids: Void
Pyrophoric solids: Void
Self-heating substances and mixtures: Void
Substances emitting flammable gas in contact with water: Void
Oxidising liquids: Void
Oxidising solids: Void
Organic peroxides: Void
Corrosive to metals: Void
Desensitised explosives: Void

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity: See section 10.3.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: See section 7.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials

Oxidising agents.

Strong acids.

Strong bases.

10.6 Hazardous decomposition products: See section 5.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes — Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

STOT-single exposure: Criteria not met. Inhalation of dust can cause irritation of the respiratory tract.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Ingestion: Abdominal discomfort and other negative effects (nausea, sickness etc.). Effects may be immediate or delayed.

Routes of exposure: See the above information in section 11.

Interactive effects: No data available.

Absence of specific data: No data available.

11.2 Information on other hazards

Endocrine disrupting properties: Substance is not listed.

Other information: See the above information in section 11.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties: The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Not classified as hazardous for environment.

Do not allow product to reach groundwater, water courses or sewage systems, even in small quantities.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation:

Waste producer has the treatment handled by a dealer or an establishment or undertaking which carries out waste treatment operations or arranged by a private or public waste collector. While respecting all the physical/chemical (and other) aspects of the nature of the waste in accordance with the waste hierarchy: 1. Prevention 2. Reuse 3. Material recovery (recycling) 4. Other recovery (e.g. energy recovery) 5. Disposal (e.g. landfilling). Waste legislation (see section 15).

European waste catalogue

16 03 06: Organic wastes other than those mentioned in 16 03 05

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15 01 02: Plastic packaging
20 01 39: Plastics
Uncleaned packaging
Recommendation: Dispose as non-hazardous waste.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number or ID number (ADR/RID/ADN, IMDG, IATA): Void
14.2 UN proper shipping name (ADR/RID/ADN, IMDG, IATA): Void
14.3 Transport hazard class(es): Void
14.4 Packing group (ADR/RID/ADN, IMDG, IATA): Void
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for user: Not applicable.
14.7 Maritime transport in bulk (IMO instruments): Not applicable.
Transport / Additional information: Not dangerous according to the above specifications.

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture
Directive 2012/18/EU — Major-accident hazards involving dangerous substances:
Named dangerous substances — ANNEX I: Substance is not listed.
European legislation applicable
REGULATION (EC) No 1272/2008 (CLP) — Classification, labelling and packaging of substances and mixtures, and subsequent amendments.
REGULATION (EC) No 1907/2006 (REACH) — Registration, Evaluation, Authorisation and Restriction of Chemicals, and subsequent amendments.
COMMISSION REGULATION (EU) No 2020/878 — Amending Annex II to REACH.
Commission Regulation (EU) 2018/605 — Scientific criteria for endocrine disrupting properties.
DIRECTIVE 2008/98/EC — Waste framework directive, and subsequent amendments.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16 OTHER INFORMATION

This information is based on our present knowledge. It shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The classification of the mixture was performed according to the calculation methods given in CLP Annex I.
Training hints: Workers must be trained in accordance with local provisions.
Abbreviations and acronyms
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging — Regulation 1272/2008/EC
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
ErC50: Effective concentration at which 50% of test organisms die or immobilise
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by IATA
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by ICAO
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50% of test population
LD50: Lethal dose, 50% of test population (median lethal dose)
NLP: No-Longer Polymers
NO(A)EL: Dose value without observed adverse effect
NOEC: Highest concentration at which no adverse effects are observed
PBT: Persistent, Bioaccumulative and Toxic
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
SDS: Safety Data Sheet
UFI: Unique Formula Identifier
vPvB: Very Persistent and Very Bioaccumulative
VOC: Volatile Organic Compounds

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