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Trade name:

AOD-9604

Chemical name: AOD-9604 Acetate (Somatotropin fragment)

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: AOD-9604

Chemical name: AOD-9604 Acetate

Other names: Somatotropin

Full IUPAC name:

L-Tyrosine, L-tyrosyl-L-leucyl-L-arginyl-L-isoleucyl-L-valyl-L-glutaminyl-L-cysteinyl-L-arginyl-L-seryl-L-valyl-L-α-glutamylglycyl-L-seryl-L-cysteinyl-glycyl-L-phenylalanine (7-14)-disulfide

CAS Number: 221231-10-3

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

Identified uses: Substance for research use only.

Sector of Use: SU24 — Scientific research and development

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 as hazardous, 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

There is no need to label the product in compliance with the directives of European Committee or national regulation/legislation.

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

None identified under normal conditions of use.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS No.: 221231-10-3

Description: AOD-9604 Acetate

Molecular formula: $C_{78}H_{123}N_{23}O_{23}S_2 \cdot xCH_3COOH$

Molecular weight: 1815.1 g/mol (free base)

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General information:

In case of any accident or health issue, get immediate medical advice/attention.

After inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.

After skin contact: Rinse cautiously with water for several minutes. Remove contaminated clothing. Get medical advice/attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Get immediate medical advice/attention.

After swallowing: DO NOT induce vomiting — this may increase the danger of additional damage to the digestive tract. Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Skin: No significant adverse health effects are expected under normal handling conditions. Dust may cause mild, temporary mechanical irritation to eyes and respiratory tract.

Inhalation: Not expected to cause significant adverse effects.

Ingestion: No acute toxicity expected.

4.3 Indication of any immediate medical attention and special treatment needed

No specific antidote. Treat symptomatically. No data available for special treatment.

SECTION 5 FIREFIGHTING MEASURES

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5.1 Extinguishing media

Suitable extinguishing agents:

Use dry chemical, CO_2, water spray or alcohol-resistant foam.

Unsuitable extinguishing agents: Not determined.

5.2 Special hazards arising from the substance or mixture

In case of fire, irritating vapours may arise. Formation of toxic gases possible during heating.

· Carbon dioxide (CO_2)

· Carbon monoxide (CO)

· Nitrogen oxides (NO_x)

· Sulphur oxides (SO_x)

5.3 Advice for firefighters

Protective equipment: In case of fire wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and complete protective clothing.

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

Use personal protective equipment as required. See section 8 for details.

6.2 Environmental precautions

Avoid soil contamination and outflow to surface or groundwater. Do not discharge into drains, surface waters or groundwater.

6.3 Methods and material for containment and cleaning up

Cover the spill with non-flammable absorbent material. Store the absorbent in closed containers and handle waste according to section 13.

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

Use personal protective equipment as required. Store in a well-ventilated place with exhaust plant. 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

Store in a closed container. Temperature ranges:

-18 °C: 3 years

0 - 7 °C: 1 year

7 - 30 °C: 6 months

Protect against air or humidity for longer storage periods.

Further storage conditions: None.

7.3 Specific end use(s)

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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Does not contain substances with occupational exposure threshold limit values.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Ensure good air conditions at the workplace. Use local or area exhausting/ventilation systems.

8.2.2 Individual protection measures — personal protective equipment:

Respiratory protection: Use a mask with filter protecting against aerosols or dust (EN 14387).

Hand protection: Gloves resistant to the product. Follow glove manufacturer recommendations for thickness, material and permeability. For long-term contact use appropriate skin cream. Nitrile rubber, NBR (EN 374) recommended.

Eye / face protection: Safety goggles and face shield, as appropriate for the work performed (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: White or coloured

Odour: Not applicable.

Odour threshold: Not applicable.

pH: Not applicable.

Melting point / freezing point: Not applicable.

Boiling point / initial boiling point: Not applicable.

Flash point: Not applicable.

Flammability: Not applicable.

Lower explosion limit: Not applicable.

Upper explosion limit: Not applicable.

Auto-ignition temperature: Not determined.

Decomposition temperature: 230 °C

Vapour pressure: Not applicable.

Surface tension: Not applicable.

Kinematic viscosity: Not applicable.

Dynamic viscosity: Not applicable.

Solubility in water: Soluble.

Partition coefficient n-octanol/water (KOW): Not applicable.

Absolute density: Not determined.

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Relative vapour density: Not applicable.

Particle characteristics: Not determined.

Explosive properties: Product does not present an explosion hazard.

VOC (EC): Not determined.

Other safety information: No data available.

SECTION 10 STABILITY AND REACTIVITY

10.1 Chemical stability

The substance is stable under normal conditions of storage and handling.

10.2 Possibility of hazardous reactions

No dangerous reactions known under normal conditions.

10.3 Conditions to avoid: Protect against air or humidity for longer storage periods. Avoid extreme temperatures.

10.4 Incompatible materials: Strong oxidising agents.

10.5 Hazardous decomposition products

Decomposition may produce:

Nitrous oxides (NO_x)

Ammonia (NH_3)

Cyanide oxides (CNO_x)

Sulphur oxides (SO_x)

SECTION 11 TOXICOLOGICAL INFORMATION

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

Acute toxicity (LD50 / LC50): Concentrations LD50 and LC50 have not been established.

Chronic toxicity:

No data on chronic toxicity available. No adverse effects expected with normal handling.

Potential health effects by route of exposure:

If inhaled: Dust may cause mechanical irritation to the respiratory tract.

If swallowed: No acute toxicity expected.

Skin: Not expected to be a skin irritant.

Eyes: Dust may cause mechanical eye irritation.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

STOT-single exposure: Inhalation of dust can cause irritation of the respiratory tract.

STOT-repeated exposure: No data available.

Aspiration hazard: No data available.

Interactive effects: No data available.

11.2 Information on other hazards

Endocrine disrupting properties: Substance is not listed.

Other information: For research and development purposes only.

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SECTION 12 ECOLOGICAL INFORMATION

12.1 Mobility in soil: No data available.

12.2 Bioaccumulative potential: No data available.

12.3 Ecotoxicological effects: No data available.

12.4 Toxicity for water organisms

May cause long lasting harmful effects to aquatic life.

12.5 Results of PBT and vPvB assessment: Not applicable.

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

12.7 Other adverse effects: Not present.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Danger of contamination of the environment — follow applicable country legislation/regulation.

Recommendation:

Follow valid waste treatment legislation. Unused product and used packaging must be stored in clearly marked containers and forwarded to an authorised waste company. It is not permitted to reuse packaging once it has been used.

European waste catalogue

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

15 01 02: Plastic packaging

20 01 39: Plastics

Legislation for waste treatment

Follow your country legislation/regulation.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number or ID number (ADR/RID, IMDG, IATA): Not applicable.

14.2 UN proper shipping name: Not dangerous goods (ADR/RID, IMDG, IATA).

14.3 Packaging group (ADR/RID, IMDG, IATA): Not applicable.

14.4 Environmental hazards (ADR/RID, IMDG Marine pollutant, IATA): No.

14.5 Special precautions for user: Not applicable.

14.6 Maritime transport in bulk (IMO instruments): Not applicable.

Transport / Additional information: Not dangerous according to the above specifications.

SECTION 15 REGULATORY INFORMATION

Safety data sheet complies with Regulation (EC) No 1907/2006 (REACH) and Directive (EU) No 453/2010.

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.

Regulation (EU) 2019/1148 — Explosives precursors:

Annex I (Restricted): Substance is not listed.

Annex II (Reportable): Substance is not listed.

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Regulation (EC) No 273/2004 — Drug precursors: Substance is not listed.
Regulation (EC) No 111/2005 — Drug precursors trade monitoring: 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: No data available. A Chemical Safety Assessment has not been carried out.

SECTION 16 OTHER INFORMATION

For research and development purpose only. It is strictly prohibited to use this substance as a drug, for home use, or for any other non-research purpose.
Statement:
This safety data sheet contains data for the health and safety protection of workers and the environment. Data are in compliance with up-to-date knowledge and experience and comply with valid regulations and legislation. No overall guarantee is given for proper use or usage in any concrete application.
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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50% of test population
LD50: Lethal dose, 50% of test population (median lethal dose)
PBT: Persistent, Bioaccumulative and Toxic
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals — Reg. 1907/2006/EC
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
SDS: Safety Data Sheet
vPvB: Very Persistent and Very Bioaccumulative
VOC: Volatile Organic Compounds

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