# SAFETY DATA SHEET

In accordance with 453/2010 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 2024-03-30

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

**1.1. Product identifier**

**Trade name** **Hexadecatrienoic 7(Z),10(Z),(13)14-D6 acid**

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

**Identified uses** Laboratory chemicals

**1.3. Details of the supplier of the safety data sheet**

**Company**

Larodan AB
Karolinska Institutet Science Park
Retzius väg 8
SE-171 65 SOLNA
Sweden

**Telephone** +46 20 15 22 00

**E-mail** info@larodan.com

**Website** www.larodan.com

**1.4. Emergency telephone number**

In case of emergency contact toxicological information, emergency tel 112 (within Europe) or 1-800-222-1222 (for USA). For other countries, use the built-in emergency number in your cell phone

For non-emergency poison information, see http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

# SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture**

**Classification in accordance with 1272/2008**

Upon assessment, this substance is not classified as hazardous according to 1272/2008.

**2.2. Label elements**

**Label information in accordance with 1272/2008**

Hazard pictograms Not applicable

Signal words Not applicable

Hazard statements Not applicable

**2.3. Other hazards**

Not relevant.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is composed of a pure or almost pure substance.

**3.1. Substances**

Synonyms (7Z,10Z,13Z)-7,10,13-Hexadecatrienoic-7,8,10,11,13,14-d6 acid

Chemical formula C16H20D6O2

Molecular weight 256.41

| Constituent | | Purity |
|---|---|---|
| **Hexadecatrienoic 7(Z),10(Z),(13)14-D6 acid** | | |
| CAS number | 2692623-88-2 | >98% |

Impurity, stabilising additive, or individual ingredients other than the main ingredient is indicated by the chemical name and the purity level.

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal

font. Text in italics are specifications and/or complement used in the calculation of the hazards of this mixture, see Section 16b

# SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Generally

In case of concern, or if symptoms persist, call doctor/physician.

#### Upon breathing in

Inhalation of fumes from heated product: let the injured rest at a warm place with fresh air. Contact the doctor if symptoms persist.

#### Upon contact with the eyes

As a precaution, rinse the eye thoroughly with water; If symptoms occur, call a doctor/physician.

#### Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Remove contaminated clothes.

#### Upon ingestion

Flush nose, mouth and throat with water.

Upon ingestion of larger amounts, consult a doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Ingestion of large amounts of the product may cause nausea and vomiting.

### 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

# SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

#### Recommended extinguishing agents

Extinguish with materials intended for the surrounding fire.

#### Unsuitable extinguishing agents

Among common extinguishing agents there are none that are overtly unsuitable.

### 5.2. Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning.

The product is not hazardous in the flammable sense.

### 5.3. Advice for fire-fighters

In case of fire use a respirator mask.

Wear full protective clothing.

Protective measures should be taken regarding other material at the site of the fire.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Use recommended safety equipment, see section 8.

Note that there is a risk of slipping if product is leaking/spilling.

### 6.2. Environmental precautions

At amounts considered in this case, the product may be released into the natural environment without serious environmental consequences. Large emissions should however be reported to the emergency services and the Environment Agency.

### 6.3. Methods and material for containment and cleaning up

Small spills can be wiped up with a cloth or similar. Then flush the spill site with water. Larger spills should first be covered with sand or earth and then be collected. Collected material should be disposed according to Section 13.

### 6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations

# SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Read and follow the manufacturer's instructions.

Avoid spillage, inhalation and contact with eyes and skin.

Keep well closed.

The usual precautions for handling chemicals should be observed.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in dry and cool area.

Store in a ventilated space.

### 7.3. Specific end uses

See identified uses in Section 1.2.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. National limit values, United Kingdom

All ingredients (cf. Section 3) lack occupational exposure limit values.

### 8.2. Exposure controls

In terms of minimizing risks, no special attention is needed for this product besides the general obligations that follow EU directive 89/391 and national occupational legislation.

Eye protection is not necessary during normal use.

Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g. mechanical risks, temperature conditions or microbiological risks.

Special measures for protection of the skin are necessary only in rare working situations. In case of doubt, consult occupational expertise. Show this safety data sheet.

Protective breathing equipment should only be required in extreme work-situations. Consult the manufacturer if this is the case.

For limitation of environmental exposure, see Section 12.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| a) | Appearance | Solid<br>Colour: white |
| b) | Odour | odorless |
| c) | Odour threshold | Not applicable |
| d) | pH | Not applicable |
| e) | Melting point/freezing point | No data |
| f) | Initial boiling point and boiling range | Not applicable |
| g) | Flash point | Not applicable |
| h) | Evaporation rate | Not applicable |
| i) | Flammability (solid, gas) | |
| j) | Upper/lower flammability or explosive limits | Not applicable |
| k) | Vapour pressure | Not applicable |
| l) | Vapour density | Not applicable |
| m) | Relative density | Not applicable |
| n) | Solubility | Not applicable |
| o) | Partition coefficient: n-octanol/water | Not applicable |
| p) | Auto-ignition temperature | Not applicable |
| q) | Decomposition temperature | Not applicable |
| r) | Viscosity | Not applicable |
| s) | Explosive properties | Not applicable |
| t) | Oxidising properties | Not applicable |

### 9.2. Other information

No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Not indicated

### 10.4. Conditions to avoid

Not indicated

### 10.5. Incompatible materials

Avoid contact with oxidizers

### 10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO2) and harmful and irritating substances.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**General or unspecific toxicity**

The product is not classified as toxic.

**Acute effects**

Not classified as an acutely toxic substance.

**Harmfulness**

The product is not classified as harmful to health.

**Repeated dose toxicity**

No chronic effects have been reported for this product.

**Carcinogenicity**

No carcinogenic effects have been reported for this product.

**CMR effects**

No mutagenic or reproductive toxic effects have been reported for this substance.

**Sensibilisation**

Not sensitising.

**Corrosive and irritating effects**

The product is not corrosive. Minor irritation may arise for persons who are prone/susceptible.

**Synergism and antagonism**

No information is available.

**Effect on judgement and other psychological effects**

Does not affect the judgement.

**Relevant toxicological properties**

**Hexadecatrienoic 7(Z),10(Z),(13)14-D6 acid** No information available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Hexadecatrienoic 7(Z),10(Z),(13)14-D6 acid**

No information available

No ecological damage is known or expected in the event of normal use.

### 12.2. Persistence and degradability

The components of the product degrades in the natural environment.

Not applicable

### 12.4. Mobility in soil

The product is slightly soluble in water and will spread on aquatic surfaces.

**12.5. Results of PBT and vPvB assessment**

No chemical safety report has been executed.

**12.6. Other adverse effects**

Not indicated

# SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Waste handling for the product**

The product is not classified as hazardous waste.

Also take local regulations for dealing with waste into account.

Avoid discharge into sewers.

**Recycling of the product**

This product is not usually recycled.

Send to landfill.

**Transportation of waste**

Waste class J(0) - Does not have adverse effects on health or the environment.

# SECTION 14: TRANSPORT INFORMATION

This product is only supposed to be transported by road or railway and just the transport regulations ADR/RID thus apply. If other means of transport are to be used, contact the publisher of this safety data sheet.

**14.1. UN number**

Not classified as dangerous goods

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

# SECTION 15: REGULATORY INFORMATION

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

Not applicable.

**15.2. Chemical safety assessment**

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

# SECTION 16: OTHER INFORMATION

**16a. Indication of where changes have been made to the previous version of the safety data sheet**

**Revisions of this document**

This is the first version.

**16b. Legend to abbreviations and acronyms used in the safety data sheet**

**Full texts for Hazard Class and Category Code mentioned in section 3**

| | |
|---|---|
| *No tox haz* | Not classified as toxic |
| *No phys haz* | Non-assigned physical hazard |
| *No environmental hazard* | Not classified as being environmentally hazardous |

**Explanations of the abbreviations in Section 14**

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

### 16c. Key literature references and sources for data

#### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I , as updated to 2015-06-05.

Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand, information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g. safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

#### Full texts for Regulations mentioned in this Safety Data Sheet

| | |
|---|---|
| 453/2010 | COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) |
| 1272/2008 | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 |
| 89/391 | COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work |
| 1907/2006 | REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Annex I |

### 16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

The calculation of the hazards of this mixture has been performed as an evaluation by applying a weight of evidence determination using expert judgement in accordance with 1272/2008 Annex I, weighing all available information having a bearing on the determination of the hazards of the mixture, and in accordance with 1907/2006 Annex XI.

### 16e. List of relevant hazard statements and/or precautionary statements

### 16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

#### Warning for misuse

This product is not expected to cause severe harm to humans or the environment. However the manufacturer, the distributor or the supplier cannot be responsible for unusual or criminal use of the product.

#### Other relevant information