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## Section 1: Identification of the substance/mixture and of the company/undertaking


- 1.1 Product identifier:**
- Trade name: **Stearin, Art. 12300**  
 CAS-number: 67701-03-5  
 EC-number: 266-928-5
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Uses of the substance / or mixture:** Raw material for manufacturing oleochemical derivatives  
 Raw material for the chemical industry, cosmetic raw material
- Uses advised against:** Not available
- 1.3 Details of the supplier of the safety data sheet**
- supplier:** Exagon AG  
**Address:** Rffelstrasse 10,  
 CH – 8045 Zurich  
**Phone:** +41 430 36 76  
**Fax:** +41 430 36 66
- 1.4 Emergency telephone number:** 145 (Tox Info Suisse)

## Section 2: Hazards identification

- 2.1 Classification of the substance or mixture**
- Classification according to Regulation (EC) No 1272/2008 [CLP]**  
 The substance is not classified according to the CLP regulation
- Physical Hazard:** Non-classification  
**Human Health Hazard:** Non-classification  
**Environmental Hazard:** Non-classification
- Classification according to Regulation 67/548/EEC [DSD]**
- The product is not classified as dangerous to Directive 67/548/EEC and its amendments.
- 2.2 Label elements**
- Labeling according to Regulation (EC) No 1272/2008 [CLP/CHS]**
- Hazard pictograms:** No Pictogram  
**Signal word:** No Signal Word  
**Hazard statements:** No Hazard Statement  
**Precautionary Statement:** Call a Poison center/doctor/physician if you fell unwell
- 2.3 Other hazards:** Not available

## Section 3: Composition/Information on ingredients

- 3.1 Chemical characterization:**
- Substances**  
**Molecular Formula:** C<sub>16</sub>H<sub>32</sub>O<sub>2</sub> + C<sub>18</sub>H<sub>36</sub>O<sub>2</sub>  
**Chemical Name:** Fatty Acids, C16-18  
**Synonym:** Hexadecanoic-Octadecanoic Acid  
**Cas No.:** 67701-03-5  
**Composition (%):** 100  
**EC No.:** 266-928-5

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## Section 4: First aid measures

### 4.1 Description of first aid measures

<b>General Information:</b>	If symptoms persist or in case of doubt, seek medical advice.
<b>After inhalation:</b>	Remove source of contamination or have victim move to fresh air. If suffocation is serious, obtain medical attention immediately.
<b>After skin contact:</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. Obtain medical attention if necessary.
<b>After Eye contact:</b>	Immediately flush the contaminated eye with running water for several minutes. Obtain medical attention if necessary.
<b>After Ingestion:</b>	If swallowed, do not induce vomiting. Rinse mouth, drink plenty of water. Obtain medical attention if necessary. <b>Never give anything by mouth to an unconscious person.</b>
<b>Protection of first-aiders:</b>	No action shall be taken involving any personal risk or without suitable training.

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

No known significant effects or critical hazards.

### 4.3 Indication of the immediate medical attention and special treatment needed

<b>Notes to physician:</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatment:</b>	No specific treatment.

## Section 5: Fire-Fighting measures


### 5.1 Extinguishing media

<b>Suitable extinguishing agents:</b>	Foam, Dry-powder or Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable extinguishing agents:</b>	High volume water jet (For safety reasons)
<b>5.2 Specific hazard arising from the substance</b>	Thermal decomposition may emit toxic fumes of carbon monoxide (CO) and Carbon dioxide (CO <sub>2</sub> ).
<b>5.3 Advice for fire-fighters:</b>	Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>5.4 Additional information:</b>	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

## Section 6: Accidental release measures

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

	Wear protecting clothing, Ensure adequate ventilation, Avoid formation of dust, Use respiratory protective device against the effects of fumes/dust/aerosol.
<b>For non-emergency personnel:</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through split material. Put on appropriate personal protective equipment.

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- For emergency responders :** Use suitable protective equipment.
- 6.2 **Environmental precautions:** Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.
- 6.3 **Methods and materials for containment and cleaning up:** For liquid spills, absorb with sand or other non-combustible material and transfer to container for disposal. Can also allow spillage to solidify, then sweep or shovel into container. Dispose according to local regulation. Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.
- 6.4 **Reference to other sections:** See section 1 for emergency contact information.  
See section 7 for information on safe handling.  
See section 8 for information on personal protective equipment.  
See section 13 for information on disposal.

## Section 7: Handling and storage


- Handling**
- 7.1 **Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed.  
Avoid inhalation of dust,  
Avoid inhalation of vapours formed by heated product.  
Avoid contact with eyes and skin.  
To use gloves when handling.  
Wash thoroughly after handling.
- 7.2 **Information about protection against explosions and fires:** Observe the general rules of industrial fire protection.



Keep ignition sources away  
Do not smoke.

**Protect against electrostatic charges.**

- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.3 **Storage Requirements to be met by storerooms** Liquid in closed container of aluminium or stainless steel (V4A) respectively fatty acid resistant coatings.  
Solid product protect in multi-layer paper bags with inner coating against humidity,  
Store in original container in a dry and well-ventilated area.  
Do not store near possible sources of ignition.  
For quality reasons, avoid elevated temperatures.
- Information about storage in one common storage facility:** Store away from foodstuffs.  
Store away from feed.
- 7.4 **storage class:** 11 Combustible solids
- 7.5 **specific end-use(s):** not available

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## Section 8: Exposure Controls / Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

### 8.1 Control parameters

**Occupational exposure limits:** Not established

### 8.2 Exposure controls

**Appropriate engineering control:** No special measures required

#### Personal protective equipment

**Respiratory Protection:** None required for ambient temperature and if room is well-ventilated, although an appropriate NIOSH approved air-purifying respirator should be used if a mist or vapor is generated.

**Eye Protection:** At formation of dust or insufficient ventilation: Tightly sealed goggles or face shield with goggles, dependent upon potential exposure.

**Skin Protection:** Protective gloves  
To avoid skin problems reduce the wearing of gloves to the required minimum. Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.

**Body protection:** Protective work clothing

**Environmental Exposure:** Exposures out of the ventilation or from working processes  
Equipment should be controlled regularly, to ensure their conformity with the existing rules for the environment.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** form: waxy-solid, crystalline, fine granular, flakes or pearls  
colour: white yellowish,

**Odor:** Slight bland/ Tallow-like odor  
**Odour threshold:** not available

**pH-Value:** not applicable

**Change in condition:**  
**Melting point/Melting range:** 53 -63 °C  
**Boiling point/Boiling range:** 200-240 °C @ 760 mm Hg  
**Flash point:** 180-202 °C (ASTM D92, Cleveland open cup)


**Ignition temperature:**  
**Decomposition temperature:** > 204°C

**Self ignition temperature:** ~ 350°C

**Danger of explosion:** Product is not explosive. However, formation of explosive air/dust mixtures is possible.

**Flammability (solid, gas):** Not Flammable

**Vapor pressure at 25°C:** < 5.06 x 10<sup>-5</sup> Pa  
**Vapor density:** Not available  
**Density at 20°C:** 0.85-0.90 g/cm<sup>3</sup>

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<b>Solubility in / Miscibility with water at 20°C:</b>	< 0.05mg/L
<b>Partition coefficient:</b>	7.05-8.23 log POW
<b>Evaporation rate:</b>	Not applicable
<b>Viscosity:</b> dynamic at 70°C:	12mm <sup>2</sup> /s (ASTM D445)
<b>Oxidizing properties:</b>	Not an oxidising substance
9.2 <b>Other information</b>	No additional information

## Section 10: Stability and reactivity

10.1	<b>Reactivity:</b>	None known
10.2	<b>Chemical stability:</b>	stable under normal operation conditions.
10.3	<b>Possibility of hazardous reactions:</b>	Thermal decomposition No decomposition if used and stored according to specifications.
10.4	<b>Conditions to be avoided:</b>	To avoid thermal decomposition do not overheat
10.5	<b>Incompatible substance:</b>	Avoid strong oxidizing agents
10.6	<b>Hazardous decomposition products:</b>	No hazardous decomposition products; if instructions for storage and handling are followed. Does not decompose up to 204°C. Thermal decomposition or burning may produce carbon monoxide and /or carbon dioxide.


## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values that are relevant for classification 67701-03-5 Fatty Acids, C16-18-

Acute oral:	LD <sub>50</sub>	> 5000 mg/kg (rat) (OECD 401; Analogy CAS 57-10-3, CAS 57-11-4)
Dermal:	LD <sub>50</sub>	> 2000 mg/kg (rabbit) (Analogy CAS 57-11-4)
Inhaled:	LD <sub>50</sub> /4h	> 0.152 mg/L (rat) (Analogy CAS 124-07-2)
<b>Primary irritant effect:</b> <b>on the skin:</b>		Not irritating (OECD 404; Analogy CAS 57-10-3, CAS 57-11-4)
<b>on the eye:</b>		Not irritating (OECD 405; Analogy CAS 57-10-3, CAS 57-11-4)
<b>Skin Sensitization:</b>		Not sensitizing (conclusive, but not sufficient for classification)
<b>Respiratory Sensitization:</b>		No data available

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**Carcinogenic, mutagenic effects and adverse effects on reproduction:**


<b>Germ cell mutagenicity:</b>	Non-classification (conclusive, but not sufficient for classification)
<b>Carcinogenicity:</b>	no data available
<b>Reproductive toxicity:</b>	Non-classification (conclusive, but not sufficient for classification)
<b>Specific Target Organ Toxicity:</b>	
<b>STOT-single exposure:</b>	Non-classification (conclusive, but not sufficient for classification)
<b>STOT-repeated exposure:</b>	Non-classification (conclusive, but not sufficient for classification)
<b>Aspiration hazard:</b>	Non-classification (conclusive, but not sufficient for classification)

## Section 12: Ecological information

<b>12.1 Toxicity</b>	
<b>Aquatic toxicity:</b>	
<b>Fish (Leuciscus idus):</b>	48h LC <sub>50</sub> > 1000 mg/L (DIN 38412/15)
<b>Fish (Danio rerio):</b>	96h LC <sub>50</sub> > 1000 mg/L (ISO 7346-1; Analogy CAS 57-10-3)
<b>Fish (Leuciscus idus):</b>	48h LC <sub>50</sub> > 10000 mg/L (DIN 38412/15, Analogy CAS 57-11-4)
<b>Crustacea (Daphia magna):</b>	48h EC <sub>50</sub> > 4.8 mg/L (OECD 202; Analogy CAS 57-10-3)
<b>Crustacea (Daphia magna):</b>	47h EC <sub>50</sub> > 32 mg/L (EU Methode C.2; Analogy CAS 57-11-4)
<b>Algae (Pseudokirchneriella subcapitata):</b>	72h EC <sub>50</sub> > 0.9 mg/L (OECD 201; Analogy CAS 57-10-3)
<b>12.2 Persistence and degradability:</b>	Readily biodegradable (BODIS test; 65% degradation after 28 days; Analogy CAS 57-10-3) (OECD 301B test; 65% degradation after 28 days; Analogy CAS 57-11-4)
<b>12.3 Bioaccumulative potential:</b>	
<b>BCF (28 days):</b>	225 L/kg (Analogy C12 fatty acid-sodium Laurate)
<b>12.4 Mobility in soil</b>	
<b>Log Koc:</b>	4.12 - 4.71 (Analogy CAS 57-10-3 und 57-11-4: (estimated by calculation base on KOCWIN programme)
<b>12.5 Results of PBT and vPvB assessment</b>	No PBT or vPvB substance
<b>12.6 Other adverse effects:</b>	None known significant effects or critical hazards.

## Section 13: Disposal considerations

<b>13.1 Waste treatment methods</b>	
<b>Recommendation:</b>	Disposal according to local regulations. Do not dispose of via sinks, drains or into the immediate environment.
<b>Uncleaned packaging:</b>	
<b>Recommendation:</b>	Disposal according to local regulations.

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## Section 14: Transport information

14.1	<b>UN "Model Regulation":</b>	None
14.2	<b>UN "Proper Shipping Name":</b>	None
14.3	<b>Transport Hazard Class</b>	
	<b>Land transport (cross-border): RID/ADR and GGVS/GGVE, ADNR class:</b>	Not hazardous good according to the regulation.
	<b>Maritime transport: IMDG class:</b>	Not hazardous good according to the regulation.
	<b>Air transport: ICAO-TI / IATA-DGR class:</b>	Not hazardous good according to the regulation.
14.4	<b>Packing group:</b>	None
14.5	<b>Environmental Hazard Water hazard class:</b>	Not hazardous for water
14.6	<b>Specious precautions for user:</b>	Not available
14.7	<b>Transport in bulk according: Annex II of MARPOL 73/78 and the IBC Code</b>	Category Y

## Section 15: Regulatory information

### 15. Regulatory information Chemical Inventory


EU	EINECS (Existing Inventory of Existing Commercial Chemical Substances)	Listed
USA	TSCA (Toxic substances control act)	Listed
Australia	AICS (Australian Inventory Chemical Substances)	Listed
China	IECSC (Inventory of Existing Chemical Substances in China)	Listed
Korea	ECL (Existing Chemical List)	Listed
Taiwan	TCSI (Taiwan Chemical Substance Inventory)	Listed
Japan	ENCS (Existing and New Chemical Substances)	Listed
New Zealand	NZIoC (New Zealand Inventory of Chemicals)	Listed
Canada	DSL (Domestic Substances List)	Listed

## Section 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Reasons for amendments:

Regulation (EC) No. 1272/2008/CLP  
 EC Regulation 453/2010  
 General revision  
 Registration number  
 Ecological data  
 Toxicological data

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**Abbreviations and acronyms:**

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL:	Derived No-Effect-Level (REACH)
PNEC:	Predicted No-Effect-Concentration (REACH)
LC <sub>50</sub> :	Lethal concentration, 50%
LD <sub>50</sub> :	Lethal dose, 50%

**16.1 Revision information**

Date of Revision : 09-03-2021  
 Date of the last Revision: 21-02-2018

**16.2 Key literature references and sources for data**

1) Fatty Acids, C16-18 (CAS 67701-03-5) Chemical Safety Report