



Specialized in chemicals

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## Material Safety Data Sheet

### Arachidonic acid MSDS

#### Section 1: Chemical Product and Company Identification

**Product Name:** Arachidonic acid

**CAS#:** 506-32-1.

**Chemical Formula:** C20H32O2

**Contact Information for Emergency:** (0086) 551 65418678

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#### Section 2: Composition and Information on Ingredients

**Composition:**

| Name                 | CAS # %   | By Weight |
|----------------------|-----------|-----------|
| Arachidonic acid oil | 506-32-1. | 40%       |

**Toxicological Data on Ingredients:** Not applicable.

#### Section 3: Hazards Identification

3.1 Classification of the substance or mixture

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

May form explosive peroxides.

3.2 Label elements

According to European Directive 67/548/EEC as amended.

Hazard symbol(s) none

R-phrases)

R19 May form explosive peroxides.

S-phrase(s) none

3.3Other hazards

May form explosive peroxides.

#### **Section 4: First Aid Measures**

4.1Description 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.

4.2Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3Indication of any immediate medical attention and special treatment needed no data available

#### **Section 5: Fire and Explosion Data**

5.1Extinguishing media Suitable extinguishing media

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

5.2Special hazards arising from the substance or mixture

Carbon oxides

5.3Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4Further information no data available

#### **Section 6: Accidental Release Measures**

6.1Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

6.2Environmental precautions

Do not let product enter drains.

6.3Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

6.4Reference to other sections

For disposal see section 13.

#### **Section 7: Handling and Storage**

#### 7.1 Precautions for safe handling

Normal measures for preventive fire protection.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20 ° C

Air, light, and moisture sensitive. Handle and store under inert gas.

#### 7.3 Specific end uses no data available

### 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

impervious clothing, 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 not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Section 9: Physical and Chemical Properties

- a) Appearance Form: viscous
- b) Odour no data available
- c) Odour Threshold no data available
- d) pH no data available
- e) Melting point/freezing point Melting point/range: -49 ° C - lit.
- f) Initial boiling point and boiling range 169 - 171 ° C at 0,20 hPa - lit.
- g) Flash point 113 ° C - closed cup
- h) Evaporation rate no data available

- i) Flammability (solid, gas) no data available
- j) Upper/lower flammability or explosive limits no data available
- k) Vapour pressure no data available
- l) Vapour density no data available
- m) Relative density 0,922 g/cm<sup>3</sup> at 25 ° C
- n) Water solubility no data available
- o) Partition coefficient n-octanol/water: no data available
- p) Autoignition temperature no data available
- q) Decomposition temperature no data available
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available

## Section 10: Stability and Reactivity Data

### 10.1 Reactivity

Risk of violent reaction.

10.2 Chemical stability no data available

10.3 Possibility of hazardous reactions no data available

10.4 Conditions to avoid

Heat, Air, light, and moisture sensitive.

10.5 Incompatible materials

Bases, Oxidizing agents, Reducing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

## Section 11: Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity

LD<sub>50</sub> Intravenous - mouse - 39,2 mg/kg

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

Germ cell mutagenicity

Genotoxicity in vitro - mouse - mammary gland Unscheduled DNA synthesis

Carcinogenicity

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

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: CE6675000

## 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 no data available

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

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

## Section 15: Other Regulatory Information

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

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

no data available

15.2 Chemical Safety Assessment

no data available

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.*