

MATERIAL SAFETY DATA SHEET

According to EC Regulation No. 2015/830



Version: 2
Date of Issue: 21.08.2019
Revision Date: 26.08.2019

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the product

Substance Name: **Anthraquinone-2-amidopentyl carboxylic acid succinimidyl ester**
Catalogue No.: AF-0405
Index No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
REACH Registration No.: Not known.

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

Identified use: Purification of substances, Laboratory chemical
Uses advised against: Not known.

1.3 Detail of the supplier of the safety data sheet

Company: emp Biotech GmbH
Robert-Roessle-Str. 10
D-13125 Berlin
Telefon: +49-30-9489-2201 (Monday-Friday, 9:00 am-5:00 pm)
Telefax: +49-30-9489-3201
E-Mail: info@empbiotech.com

1.4 Emergency Number

INFOTRAC: +1-352-323-3500 (Phone) or in the **US 800-535-5053** (toll-free), 24 hours/day, 7 days/week

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

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

2.2 Label elements

The product does not need to be labelled in accordance with Regulation (EC) No. 1272/2008.

2.3 Other hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Main component of the substance

Substance Name: Anthraquinone-2-amidopentyl carboxylic acid succinimidyl ester
Synonyms: Anthraquinone -C6-SE
Anthraquinone -C6-NHS ester
AQI-C6-SE
Formula: $C_{25}H_{22}N_2O_7$
Molecular Weight: 462.5
CAS No.: None known.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice:

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Consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation:

Supply fresh air. If not breathing, give artificial respiration.

After skin contact:

Wash off with plenty of water and soap. Remove contaminated clothing and shoes.

After eye contact:

Rinse out with plenty of water with the eyelid held wide open (≥ 15 minutes). Call an ophthalmologist or physician.

After swallowing:

Rinse out mouth and drink a glass of water. Wash out mouth with water if person is conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical advice immediately and show the container or label. Call for a doctor immediately.

4.2 Most 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.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

CO₂, powder, alcohol-resistant foam, water spray.

Extinguishing media not to be used

No data available

5.2 Special hazards arising from the substance or mixture

May be combustible at high temperature. Development of hazardous combustion gases or vapours is possible in the event of fire.

5.3 Advice for firefighters

Do not stay in dangerous zone without suitable protection clothing and self-contained breathing apparatus.

5.4 Additional information

Be sure to use an approved / certified respirator or equivalent

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing, including respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

6.2 Environmental precautions

Do not allow to enter sewage system.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Ventilate area and wash spill site after completion of clean up.

6.4 Reference to other sections

For disposal see section 13.

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe dust. Keep away from sources of ignition and heat. Avoid contact with eyes, skin and clothing. Avoid long and repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Protect material from light, especially in solution!

Recommended storage temperature: at -20 °C.

7.3 Specific end uses

No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

Personal protection equipment

Respiratory protection: A respiratory is not needed under normal and intended conditions of product use.

Eye protection: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection: Solvent-resistant gloves. Gloves must be inspected prior to use. Replace when worn. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. Due to missing tests no recommendation to the glove material can be given for the product.

Skin and body protection: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

- | | |
|--|--|
| a) Physical state: | light yellow solid |
| b) Odour: | no data available |
| c) Odour Threshold: | no data available |
| d) pH value: | no data available |
| e) Melting point: | no data available, decomposes |
| f) Boiling point: | no data available |
| g) Flash point: | Product does not sustain combustion. |
| h) Evaporation rate: | no data available |
| i) Flammability (solid, gas): | Not considered to be flammable. |
| j) Explosion limits: | no data available |
| k) Vapour pressure (20 °C): | no data available |
| l) Vapour density: | no data available |
| m) Relative density (20°C): | no data available |
| n) Solubility in water: | low solubility in water, soluble in methanol and dimethylformamide |
| o) Partition coefficient:
n-octanol/water | no data available |
| p) Autoignition temperature: | no data available |

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- q) Decomposition temperature: no data available
r) Viscosity: no data available
s) Explosive properties: Not considered to be a product presenting a risk of explosion.
t) Oxidizing properties: no data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions. Slow decomposition with high humidity and/or in presence of water. Product is light sensitive and may decompose upon exposure to light.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Incomplete combustion can generate hazardous carbon oxides (CO and CO₂) and nitrogen oxides (NO and NO₂).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

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

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Aspiration hazard

No data available

Potential health effects

Inhalation: No known significant effects or critical hazards
Ingestion: No known significant effects or critical hazards
Skin: No known significant effects or critical hazards
Eyes: No known significant effects or critical hazards

Signs and Symptoms of Exposure

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

Other information

RTECS numbers (NIOSH): No data available

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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable suspension to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: Not regulated.

IMDG: Not regulated.

IATA: Not regulated.

14.2 UN proper shipping name

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.3 Transport hazard class(es)

ADR/RID:

IMDG:

IATA:

