

**Material Safety Data Sheet  
According to 91/155EC**

DAF-2

Printing Date: 18.12.2010

Reviewed on: 18.12.2010



**GENAXXON**

b i o s c i e n c e

**1. Identification of the substance/preparation and of the company**

**Product details**

**Trade Name:** DAF-2

**Product Name:** 5,6-Diaminofluorescein

**Catalogue-No.:** S5439

**Manufacturer /Supplier:**

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.

Tel.: +49 (0)731 3608 123

**Further information available from:**

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.

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**Information in case of emergency:**

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**MSDS-No:** daf-2/e1

**NOTE:** If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

**Product Use:**

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

**2. Composition/information on ingredients**

**Chemical characterisation**

**Synonyms:** DAF-2

**Formula:** C<sub>20</sub>H<sub>14</sub>N<sub>2</sub>O<sub>5</sub>

**Molecular Weight:** 362.34 g/mol

Product Name	Hazardous Symbol	Concentration (%)	CAS #	EC no	Annex I / Index Number
5,6-Diaminofluorescein	---	---	205391-01-1	---	---

**3. Hazardous identification**

**Information concerning particular hazards for human and environment:**

Irritating to eyes, respiratory system and skin.

**4. First-aid measures**

**After inhalation:** If inhaled, move person into fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Consult physician.

**After contact with skin:** Wash off with soap and plenty of water. Consult physician.

**After contact with eyes:** Flush immediately with copious amounts of water. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**After swallowing:** Never give anything by mouth to an unconscious person. If swallowed, wash out mouth with plenty of water provided person is conscious. Call for doctor immediately.

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**5. Fire-fighting measures**

**Suitable extinguishing agents:** Water Spray. Carbon Dioxide. Dry chemical powder or appropriate foam.

**Special risks:** Specific Hazard(s): Emits toxic fumes under fire conditions.

**Protective equipment (For fire fighters):** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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**6. Accidental release measures**

**Personal precaution procedures to be followed in case of leak or spill:** Avoid dust formation. Don't breathe fume/aerosol. Avoid direct contact. Ventilate area and wash spill site after material pick-up is complete.

**Person related safety precautions:** Wear respirator, safety glasses, and protective gloves.

**Measures for environmental protection:** Avoid release to sewage system or environment.

**Measures for cleaning/collecting:** Pick up and arrange disposal without creating dust. Keep suitable, closed containers for disposal.

**7. Handling and storage**

**Handling**

**Information for safe handling:** Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Information about fire – and explosion protection:** Normal measures for preventive fire protection.

**Storage:**

**Requirements to be met by storerooms and receptacles:** Keep bottles well closed.

**Information about storage in one common storage facility:** Keep bottles well closed.

**Further information about storage conditions:** Keep tightly closed. Store at 4°C.

**Special requirements:** No special measures required.

**8. Exposure controls/personal protection**

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Protection of hands:** Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Materials of gloves:** The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Eye protection:** Safety glasses.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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**9. Physical and chemical properties**

**General Information**

**Form:** Powder  
**Colour:** white  
**Odour:** none

**Change in conditions**

**Melting point/Melting range:** No data available  
**Boiling point/Boiling range:** No data available

**Flash point:** Not applicable  
**Self-ignition:** data not available  
**Danger of explosion:** data not available  
**Density at 20°C:** data not available  
**Solubility in / Miscibility with water:** data not available  
**pH value (1%, H2O):** data not available

**10. Stability and reactivity**

**Thermal composition / conditions to be avoided:** Avoid strong heating.

**Materials to avoid:** Avoid strong oxidizing agents.

**Dangerous decomposition products:** Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx).

**Hazardous Polymerisation:** Will not occur.

**Storage stability:** Stable under recommended storage conditions.

**11. Toxicological information**

**Acute Toxicity:** No data available

**Irritation and corrosion:** No data available.

**Sensitisation:** No data available.

**Chronic exposure:**

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.

**Potential Health Effects:**

**Route of Exposure.**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin Absorption:** May be harmful if absorbed through the skin. May cause skin irritation.  
**Eye contact:** May cause irritation of eyes.  
**Ingestion:** May be harmful if swallowed.

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**12. Ecological Information**

**Biological Degradation**

No data available

**Ecotoxicity effects**

No data available

**General notes:**

No data available

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**13. Disposal considerations**

**Product:**

**Recommendation:** Must not be disposed together with household garbage. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Contaminated packaging:** Dispose of as unused product.

**14. Transport information**

**Land transport ADR/RID (cross border)**

**ADR/RID class:** No dangerous good

**Maritime transport IMDG:**

**IMDG Class:** No dangerous good

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** No dangerous good

**15. Regulatory information**

**Labelling according to EU guidelines:**

Indication of danger: - - -

R-Phrases: - - -

S-Phrases: 26 (In case of contact with eyes, rinse immediately with plenty of water and seek

Caution: Substance not yet tested completely.

**National Regulations:** Germany

WKG: 3 (self classification )

**16. Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Genaxxon bioscience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.