

# Material safety data sheet

according to OSHA HCS



GENAXXON  
b i o s c i e n c e

Product number : S5442

Product name : DAF-2T

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

### Product identifier

**Product Name:** DAF-2T / Diaminofluorescein-2 Triazole

**Catalogue Number:** S5442

**CAS Number:** 208850-35-5

**EC Number:**

**REACH-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.

### Application of the substance/the preparation

Chemical analytics

chemical reference standard substance

### Details of the supplier of the safety data sheet

#### Manufacturer /Supplier:

Genaxxon bioscience GmbH, Söflinger Str. 70, 89077 Ulm/Germany.

Tel.: +49 (0)731 3608 123, [info@genaxxon.com](mailto:info@genaxxon.com)

**Further information available from:** General Management

#### Emergency telephone number:

Genaxxon bioscience GmbH, Söflinger Str. 70, 89077 Ulm/Germany.

Tel.: +49 (0)731 3608 123, [info@genaxxon.com](mailto:info@genaxxon.com). Office hours: 8:00 am till 5:00 pm German time

## 2. Hazardous identification

### Classification of the substance or mixture

The preparation is not classified according to the CLP regulation.

### Label elements

**GHS label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS).

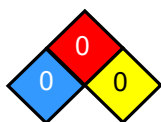
**Hazard pictograms:** Void

**Signal word:** Void

**Hazard statements:** Void

**Classification system:**

**NFPA ratings (scale 0 – 4)**



Health = 0  
Fire = 0  
Reactivity = 0

### HMIS-ratings (scale 0 -4)

HEALTH	0
FIRE	0
REACTIVITY	0

Health = 0

Fire = 0

Reactivity = 0

### Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable

### Classification system:

The classification is according the latest editions of the EU-lists, and extended by company and literature data.

## 3. Composition/information on ingredients

**Chemical characterisation:** Substance

### Description:

**Formula:** C<sub>20</sub>H<sub>11</sub>N<sub>3</sub>O<sub>5</sub>

**Molecular weight:** 373.32 g/mol

**CAS-No.:** 208850-35-5

**Additional Information:** For the wording of the listed risk phrases refer to section 16 of this data sheet.

## 4. First-aid measures

### Description of first aid measures

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**General information:** Seek immediate medical advice.

**After inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth.

If symptoms persist consult a doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

## 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing agents:**

Water Spray. Carbon Dioxide. Dry chemical powder, or appropriate foam. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet.

**Special hazards arising from the substance or mixture:**

Formation of toxic gases is possible during heating or in case of fire.

In case of a fire, the following can be released:

Carbon oxides (CO, CO<sub>2</sub>)

**Advice for fire fighters:**

**Protective equipment:**

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

**Additional information:**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Contain escaping vapours with water.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Avoid dust formation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

**Environmental precautions:** Do not allow product to enter sewage system, surface or ground water.

Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Clean up affected area.

**Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7. Handling and storage

**Handling**

**Precautions for safe handling:** Prevent formation of dust. Provide appropriate exhaust ventilation at places where dust is formed.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special measures required.

**Information about storage in one common storage facility:** No special measures required.

**Further information about storage conditions:** Keep container tightly closed.

**Recommended storage temperature:** +2°C to +8°C

**Storage class:** 10 - 13

**Specific end use(s):** No further relevant information available.

## 8. Exposure controls/personal protection

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

## Control parameters

### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

## Exposure controls:

### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

Immediately remove all soiled and contaminated clothing.

### Respiratory protection:

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Filter P2 (EN 143).

## Protection of hands:



Protective gloves (EN 374)

The glove material has to be impermeable and resist ant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

Value for permeation: Level:  $>480$  min.

### As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

Value for the permeation: Level  $\geq 480$  min.

## Eye/face protection: Safety glasses



Tightly sealed goggles (EN 166)

## Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance

Form: Solid  
Colour: yellow to orange  
Odour: No data available

pH value at 20°C: Not determined

#### Change in conditions

Melting point/Melting range: Undetermined  
Boiling point/Boiling range: Undetermined

Flash point: Not applicable

Flammability (solid, gaseous): Not applicable

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Decomposition temperature:	Not determined
Self-ignition:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	Not determined
Density (20°C):	Not determined
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with (water, 20°C):	No data available
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Solvent content:	
Organic solvents:	0.0%
Other safety information:	No data available

## 10. Stability and reactivity

**Reactivity:** No dangerous reactions known.

### Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** In the event of fire: See chapter 5 of this data sheet.

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### Primary irritant effect

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritant effect.

**After inhalation:** No further relevant information available.

**Sensitization:** No sensitizing effect known.

**Germ cell mutagenicity:** No further relevant information available.

**Carcinogenicity:** No further relevant information available.

**Reproductive toxicity:** No further relevant information available.

**Specific target organ toxicity – single exposure:** No further relevant information available.

**Specific target organ toxicity – repeated exposure:** No further relevant information available.

### Carcinogenic categories

#### IARC (International Agency for Research on Cancer)

Substance is not listed.

#### NTP (National Toxicology Program)

Substance is not listed.

#### OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

### Additional toxicological information:

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

The product should be treated with usual precautions while handling chemicals.

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## 12. Ecological Information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

### Behaviour in environmental systems:

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

### Additional ecological information:

#### Results of PBT and vPvB assessment

**PBT:** Not applicable

**vPvB:** Not applicable

**Other adverse effects:** No further relevant information available.

## 13. Disposal considerations

### Waste treatment methods

#### Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### Uncleaned packaging:

##### Recommendation:

Disposal must be made according to official regulations.

Packaging may not be cleansed and is to be disposed of in the same manner as the product.

#### Recommended cleansing agents:

Water, if necessary together with cleansing agents.

## 14. Transport information

### UN-Number

DOT, ADR, ADN, IMDG, IATA: Void

### UN proper shipping name

DOT, ADR, ADN, IMDG, IATA: Void

### Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA: Void

#### Class

### Packaging group

DOT, ADR, IMDG, IATA: Void

### Environmental hazards:

**Marine pollutant:** No

**Special precautions for user:** Not applicable

### Transport in bulk according to Annex II of

**MARPOL73/78 and the IBC Code** Not applicable

**Transport/Additional information:** Not dangerous according to the above specifications.

**UN "Model Regulation":** Void

## 15. Regulatory information

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

Sara

#### Section 355 (extremely hazardous substances)

Substance is not listed.

#### Section 313 (Specific toxic chemical listings)

Substance is not listed.

#### TSCA (Toxic Substances Control Act)

Substance is not listed.

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## Proposition 65

### Chemicals known to cause cancer

Substance is not listed.

### Chemicals known to cause reproductive toxicity for females

Substance is not listed.

### Chemicals known to cause reproductive toxicity for males

Substance is not listed.

### Chemicals known to cause developmental toxicity

Substance is not listed.

## Carcinogenicity categories

### EPA (Environmental Protection Agency)

Substance is not listed.

### TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

### NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

**GHS label elements:** Void

**Hazard pictograms:** Void

**Signal word:** Void

**Hazard statements:** Void

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

## Disclaimer

This product is for R&D use only. Not for drug, household or other uses.

## Abbreviations and Acronyms:

ACAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

GHS: Globally Harmonized System of Classification and labeling of Chemicals

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

IMDG: International Maritime code for Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)