

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006



# GENAXXON

b i o s c i e n c e

Product number : M3175

Product name :

Acridine Orange (C.I. 46005)

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

### Product details

**Product Name:** Acridine Orange (C.I. 460059)

**Catalogue-No.:** M3175

### 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.  
Tel.: +49 (0)731 3608 123

### Information in case of emergency:

Poison Information Centre Mainz, Germany  
Tel.: +49 (0)6131 19240 / 24 h

**MSDS-No:** acridine/1e

**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. Hazardous identification

### Classification of the substance/preparation/mixture

Classification according to Regulation (EC) No 1272/2008



**GHS08 health hazard**

Muta. 2 H341 Suspected of causing genetic defects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



**Xn; Harmful**

R68: Possible risk of irreversible effects.

### Label elements:



**Signal word:** Danger

Hazard-determining components of labeling:  
Acridine Orange (C.I. 46005)

### Hazard statements

H341 Suspected of causing genetic defects.

### Precautionary statement(s):

P281: Use personal protective equipment as required.

P308+PP313: IF exposed or concerned Get medical advice/attention.

### Other hazards

### Results of PBT and vPvB assessment

**PBT:** Not applicable

**vPvB:** Not applicable

Zuständig : GF

Druckdatum : 2011-10-09– überarbeitet : 2011-10-09

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### 3. Composition/Information on ingredients

#### Chemical Characterization

**Description:** Powder  
**Synonyme:** Acridine Orange, Basic Orange 14  
**Formula:** C<sub>17</sub>H<sub>19</sub>N<sub>3</sub>  
**Molecular Weight:** 369.96 g/mol

Product name	CAS-No.	EC-No.	Index-No.	Classification	Concentration
Acridine Orange	10127-02-3	233-353-6	---	Xn, R68	---

### 4. First Aid Measures

**General information:** Immediately remove any clothing soiled by the product.  
**After Inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Generally the product does not irritate the skin.  
**After eye contact:** Rinse opened eye for several minutes under running water.  
**After swallowing:** Induce vomiting and call for medical help. Rinse out mouth.  
**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:** powder, water spray, CO<sub>2</sub>, alcohol-resistant foam or dry chemical.  
**Special hazards arising from the substance or mixture:** In case of fire, the following can be released: NO<sub>x</sub>, HCl, CO, CO<sub>2</sub>.  
**Advice for firefighter's**  
**Protective equipment:** Wear self contained breathing apparatus for fire-fighting if necessary.

### 6. Accidental release Measures

**Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Avoid direct contact and wash spill site after material pick-up is complete.  
**Environmental precautions:** Do not let product enter drains/sewers/surface or ground water.  
**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.  
**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:** Keep receptacles tightly sealed.  
**Information about fire – and explosion protection:** Normal measures for preventive fire protection.  
**Conditions for safe storage, including any incompatibilities**  
**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 in a dry and well ventilated place.  
**Further information about storage conditions:** Keep tightly closed. Store at RT.  
**Storage class:** 10-13  
**Storage temperature:** 15°C – 25°C  
**Specific end use(s):** No further relevant information available

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## 8. Exposure controls/personal protection

**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:** Not required.

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

### Exposure controls

#### Personal protective equipment

#### Respiratory protection:

For nuisance exposure use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEDk-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection



Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection

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

#### Skin and body protection

Complete suit protection against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with eyes and skin.

## 9. Physical and chemical properties

### Appearance

<b>Form:</b>	Powder
<b>Colour:</b>	Orange
<b>Odeur:</b>	Undistinguishable

### Safety data

#### Change in conditions

<b>Melting Point/Melting Range:</b>	Undetermined
<b>Boiling Point/Boiling Range:</b>	Undetermined

**Flash Point:** Not applicable

**Ignition temperature:** Not applicable

**Flammability (solid, gaseous):** Product is not flammable.

**Danger of explosion:** Product does not present an explosion hazard.

**Density at 20°C:** Not determined

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Other information: No further relevant information available.

## 10. Stability and Reactivity

### Reactivity

#### 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 be avoided:** No further relevant information available.

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

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions: Carbon monoxide, Carbon dioxide, Nitrogen oxids (NOx), HCl.

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

#### Primary irritant effect:

**on the skin:** No irritant effect.

**on the eye:** No irritant effect.

**Sensitization:** No sensitizing effects known.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** Muta. 2.

## 12. Ecological Information

### Toxicity

**Acquatic 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:

##### General notes:

Water hazard class 3 (German Regulation) ( self assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

#### Results of PBT and vPvB assessment

**PBT:** Not applicable

**vPvB:** Not applicable

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

**General notes:** If handled accordingly no ecological problems are expected.

## 13. Disposal considerations

### Waste treatment methods:

**Recommendation:** Offer surplus and non-recyclable solutions to a licensed disposal company. 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/contaminated packaging:** Dispose of as unused product.

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

## 14. Transport information

### UN Number:

ADR, ADN, IMDG, IATA: void

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## UN proper shipping name

ADR, ADN, IMDG, IATA: void

## Transport hazard class(es)

ADR, ADN, IMDG, IATA:

Class void

## Packing group

ADR, IMDG, IATA: void

## Environmental hazards:

Marine pollutant: No

Special precautions for user: Not applicable

## Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code Not applicable

UN "Model Regulations": - - -

## 15. Regulatory information

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

National Regulations: Germany

Water hazard class: Water hazard class 3 (extremely hazardous for water) (self assessment).

## 16. Other information

### Further 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.

Abbreviation and Akronymes:

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 Labeling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)