

Revised on: 12.12.2017

Created on: 12.12.2017

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: Acridine orange (C.I. 46005) for microscopy

Article number: 8356

CAS Number: 10127-02-3

EC number: 233-353-6

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

No further relevant information available.

Application of the substance / the mixture:

- Dyestuff/Colouring agent
- Laboratory chemical

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

neoFroxx GmbH
Marie-Curie-Str. 3
D-64683 Einhausen
info@neofroxx.com

Further information obtainable from:

Dep. Quality Control

1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Muta. 2 H341 Suspected of causing genetic defects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

Hazard pictogram:



GHS08

Signal word: Warning

Hazard-determining components of labelling:

Acridine orange (C.I. 46005)

Hazard statements:

H341 Suspected of causing genetic defects.

Precautionary statements:

P281 Use personal protective equipment as required.

P308+P313 IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0

Fax: +49 (6251) 989 24 – 10

info@neofroxx.com

www.neofroxx.com

Revised on: 12.12.2017

Created on: 12.12.2017

3. Composition / information on ingredients

3.1. Chemical characterisation: Substances

CAS No. Description:

10127-02-3 Acridine orange (C.I. 46005)

Identification number(s):

EC number:

233-353-6

4. First aid measures

4.1. Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air or oxygen; call for doctor.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Seek medical treatment.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth.

Do not induce vomiting; call for medical help immediately.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

5.3. Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Dispose contaminated material as waste according to item 13.

neoFroxx GmbH

Marie-Curie-Str. 3

64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0

Fax: +49 (6251) 989 24 – 10

info@neofroxx.com

www.neofroxx.com

Revised on: 12.12.2017

Created on: 12.12.2017

6.4. 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

7.1. Precautions for safe handling

Keep receptacles tightly sealed.

Information about fire - and explosion protection: No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: 15-25 °C

Storage class: 13

7.3. Specific end use(s)

No further relevant information available.

8. Exposure controls / personal protection

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

8.1. 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.

8.2. Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter P2

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant 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

Revised on: 12.12.2017

Created on: 12.12.2017

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.

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.

Eye protection: Safety glasses

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information:

Appearance:

Form: Powder

Colour: Orange

Odour: Undistinguishable.

pH-value at 20 °C: ~ 4

Change in condition:

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Product is not flammable.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapour pressure: Not applicable.

Density: Not determined.

Solubility in / Miscibility with water: Insoluble.

Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

Solvent content:

Organic solvents: 0.0 %

VOC (EC) 0.00 %

9.2. Other information

No further relevant information available.

10. Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No dangerous reactions known.

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com

Revised on: 12.12.2017

Created on: 12.12.2017

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials:

Oxidizing agent

10.6. Hazardous decomposition products:

In the event of fire: See chapter 5

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Persistence and degradability

No further relevant information available.

12.2. Bioaccumulative potential

No further relevant information available.

12.3. Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system, even in small quantities. Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water. Danger to drinking water if even extremely small quantities leak into the ground.

12.4. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.5. Other adverse effects

No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com

Revised on: 12.12.2017

Created on: 12.12.2017

14. Transport information

14.1. UN-Number

ADR, ADN, IMDG, IATA Void

14.2. UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3. Transport hazard class(es)

ADR, ADN, IMDG, IATA Class Void

14.4. Packing group

ADR, IMDG, IATA Void

14.5. Environmental hazards:

Marine pollutant: No

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

UN "Model Regulation": Void

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

15.2. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for Any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organisation

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Muta. 2: Germ cell mutagenicity – Category 2