

Page 1/7

Material Safety Data Sheet According to 91/155 EEC

Printing date 11.05.2006 Reviewed on 11.05.2006

1 Identification of the substance/preparation and of the company/undertaking

- · Product details
- · Trade name: Algezid II
- · Article number: BUNDZ, BR88G
- · Application of the substance / the preparation Anti-algae agent
- · Manufacturer/Supplier:

a&o imaging services uk ltd.

27 Great West Road

Brentford Middlesex TW8 9AX UK

· Further information obtainable from:

Productmanagement, Tel.: + 49 7042 913-41, Fax: + 49 7042 913-18

· Information in case of emergency:

EUROPE :

Phone: + 49 214 30 99300 (Security service Bayer Industries Services Leverkusen)

2 Composition/information on ingredients

- · Chemical characterization
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

Isothiazolinone

C; R 34-43-52/53 1.4%

· Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description:



C Corrosive

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 34 Causes burns.

R 43 May cause sensitisation by skin contact.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Classification system:

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

4 First aid measures

 $\cdot \textbf{\textit{General information:}} \ \textit{Immediately remove any clothing soiled by the product.}$

(Contd. on page 2)

Page 2/7

Material Safety Data Sheet According to 91/155 EEC

Printing date 11.05.2006 Reviewed on 11.05.2006

Trade name: Algezid II

(Contd. of page 1)

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire-fighting measures

· Suitable extinguishing agents:

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

· Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- · Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

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

· Measures for cleaning/collecting:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

- · Handling:
- · Information for safe handling: No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 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: Keep container tightly sealed.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 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.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

(Contd. on page 3)



Page 3/7

Material Safety Data Sheet According to 91/155 EEC

Printing date 11.05.2006 Reviewed on 11.05.2006

Trade name: Algezid II

(Contd. of page 2)

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Respiratory protection: Not required.
- · 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

· 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties			
· General Information			
Form:	Fluid		
Colour:	According to product specification		
Odour:	Characteristic		
Melting point/Melting ran Boiling point/Boiling rang Flash point:			
· Self-igniting:	Product is not selfigniting.		
D C 1 :	Duadwat door not progent an explosion hazard		
· Danger of explosion:	Product does not present an explosion hazard.		
· Vapour pressure at 20°C:	23 hPa		

(Contd. on page 4)



Page 4/7

Material Safety Data Sheet According to 91/155 EEC

Printing date 11.05.2006 Reviewed on 11.05.2006

Trade name: Algezid II

		(Contd. of page 3
· Solubility in / Miscibility	with	
water:	Fully miscible.	
· pH-value at 20°C:	1.6	
· Viscosity:		
Kinematic at 20°C:	12 s (DIN 53211/4)	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	96.5 %	
· Solids content:	2.0 %	

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Dangerous reactions No dangerous reactions known.
- · Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: Sensitization possible through skin contact.
- $\cdot Additional\ toxicological\ information:$

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- · Ecotoxical effects:
- · Remark: Harmful to fish
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

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

Harmful to aquatic organisms

(Contd. on page 5)

Page 5/7

Material Safety Data Sheet According to 91/155 EEC

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(Contd. of page 4)

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- · Product:
- · Recommendation

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

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

· Land transport ADR/RID (cross-border)



· ADR/RID class: 8 (C3) Corrosive substances.

No

· Danger code (Kemler): 80 · UN-Number: 3265 · Packaging group: II · Hazard label:

· Description of goods: 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture of: 5-

chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-

4-isothiazolin-3-one [EC no. 247-500-7] and 2-m)

· Maritime transport IMDG:



· IMDG Class: · UN Number: 3265 \cdot Label 8 · Packaging group: II· EMS Number: F-A,S-B· Marine pollutant:

(Contd. on page 6)



Page 6/7

Material Safety Data Sheet According to 91/155 EEC

Printing date 11.05.2006 Reviewed on 11.05.2006

Trade name: Algezid II

(Contd. of page 5)

Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-m)

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 8 · UN/ID Number: 3265 · Label 8 · Packaging group: II

· Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (mixture of: 5-chloro-2-

methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-

isothiazolin-3-one [EC no. 247-500-7] and 2-m)

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

C Corrosive

· Hazard-determining components of labelling:

Isothiazolinone

· Risk phrases:

34 Causes burns.

43 May cause sensitisation by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· National regulations:

Class	Share in %
Wasser	96.5
I	1.4

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.

(Contd. on page 7)



Page 7/7

Material Safety Data Sheet According to 91/155 EEC

Printing date 11.05.2006 Reviewed on 11.05.2006

Trade name: Algezid II

(Contd. of page 6)

- · Relevant R-phrases
- 34 Causes burns.
- 43 May cause sensitisation by skin contact.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- · Department issuing MSDS: Productmanagement department
- · Contact: Mr. Vollhofer, a&o imaging solutions, Tel.: + 49 7042 913-43

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