

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.07.2007

Revision: 03.07.2007

1 Identification of the substance preparation and of the company undertaking

Product details

- Trade name: **72 BL-R**
- ABC-Code: 5UBMQ - 3x3 L
- Application of the substance / the preparation: *Photographic bleaching concentrate*

Manufacturer/Supplier:

a & o imaging solutions GmbH
 Chemische Fabrik Vaihingen/Enz
 Steinbelsstraße 49
 D-71665 Vaihingen/Enz
 Germany

Further information obtainable from:

Productmanagement, Tel.: + 49 7042 913-41, Fax: + 49 7042 913-18
 e-Mail: info-msds@a-o-imaging.com

Information in case of emergency:

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

2 Hazards identification

- Hazard description: *Not applicable.*
- 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 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.

3 Composition information on ingredients

Chemical characterization

- Description: *Mixture of substances listed below with nonhazardous additions.*

Dangerous components:

CAS: 111687-36-6 ELINCS: 400-660-3	ammonium iron(III)trimethylenediaminetetraacetate hemihydrate N; R 51/53	10-25%
CAS: 6484-52-2 EINECS: 229-347-8	ammonium nitrate O; R 8-9	2.5-10%
CAS: 1939-36-2 ELINCS: 400-400-9	trimethylenediaminetetraacetic acid Xn, Xi, N; R 22-41-50/53	0.6-1.0%

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

4 First aid measures

- 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: *If symptoms persist consult doctor.*

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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:** Not required.
- **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).

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:** None.

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:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**
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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection: Goggles recommended during refilling

9 Physical and chemical properties
· General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	100°C

· Flash point:	Not applicable.
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· Vapour pressure at 20°C:	23.0 hPa
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· Density at 20°C:	1.15400 g/cm ³
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· Solubility in / Miscibility with water:	Fully miscible.
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· pH-value at 20°C:	3.3
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· Viscosity:	
 Kinematic at 20°C:	11 s (DIN 53211/4)

· Solvent content:	
 Organic solvents:	0.0 %
 Water:	62.9 %

· Solids content:	37.1 %
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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:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **General notes:**
- Harmful to aquatic organisms

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Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- **Product:**
- **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.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

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



- **ADR/RID class:** 8 (C9) Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1760
- **Packaging group:** III
- **Hazard label:** 8
- **Description of goods:** 1760 CORROSIVE LIQUID, N.O.S. (Ammonium-Iron-PDTA)

• **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1760
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A
- **Marine pollutant:** No
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (Ammonium-Iron-PDTA)

• **Air transport ICAO-TI und IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1760
- **Label:** 8
- **Packaging group:** III
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (Ammonium-Iron-PDTA)

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- **Transport/Additional information:**
ADR/RID, IMDG: Dangerous goods in limited quantities of class 8, UN 1760, PG III.

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Risk phrases:**
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

- **Relevant R-phrases**
 - 22 Harmful if swallowed.
 - 41 Risk of serious damage to eyes.
 - 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 8 Contact with combustible material may cause fire.
 - 9 Explosive when mixed with combustible material.
- **Department issuing MSDS:** Productmanagement department
- **Contact:**
Mr. Vollhofer, a&o imaging solutions GmbH. Tel.: + 49 7042 91343
e-Mail: info-msds@a-o-imaging.com

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