

Material Safety Data Sheet

According to 91/155 EEC

Printing date 11.05.2006

Reviewed on 17.03.2006

Hazardous according to criteria of Worksafe Australia

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

· **Product details**

· **Trade name:** MSC 101 Paper CD-R, 1-Part

· **Article number:** 5K9SK

· **Application of the substance / the preparation** Photographic colour developer concentrate

· **Manufacturer/Supplier:**

a&o imaging solutions GmbH
 Chemische Fabrik Vaihingen/Enz (former AGFA / AgfaPhoto)
 Steinbeisstrasse 49
 D-71665 Vaihingen/Enz
 Germany

distributed by :

Photo Direct P/L
 Suite 2, 358 Whitehorse Rd
 Nunawading Vic 3131
 Australia
 Phone: + 61 3 9894 1644
 Fax: + 61 3 9894 1677

· **Further information obtainable from:**

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

· **Information in case of emergency:**

Australia / New Zealand :
 The Australian Centre for Occupational Health & Safety (ACOHS Pty Ltd)
 6 Burleigh Court, Nunawading, VIC 3131
 Phone : 1800 638 556 (24 hours, 7 days a week)

2 Composition/information on ingredients

· **Chemical characterization**

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

· **Dangerous components:**

CAS: 584-08-7 EINECS: 209-529-3	potassium carbonate	16.2%
CAS: 111-46-6 EINECS: 203-872-2	2,2'-oxybisethanol	11.5%
	p-Phenylendiamin-Derivat (ACD 3)	8.3%
CAS: 3710-84-7 EINECS: 223-055-4	N,N-diethylhydroxylamine	4.9%
CAS: 60-00-4 EINECS: 200-449-4	edetic acid	3.2%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide	1.4%

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

AUS

(Contd. on page 2)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 11.05.2006

Reviewed on 17.03.2006

Trade name: MSC 101 Paper CD-R, 1-Part

(Contd. of page 1)

3 Hazards identification

· Hazard description:



Irritant
Dangerous for the environment

· 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.

Irritating to eyes and skin.

May cause sensitisation by skin contact.

Toxic 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

· 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. If symptoms persist, consult a doctor.

· After swallowing: *If symptoms persist consult doctor.*

5 Fire-fighting measures

· Suitable extinguishing agents: *Use fire extinguishing methods suitable to surrounding conditions.*

· 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.*

(Contd. on page 3)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 11.05.2006

Reviewed on 17.03.2006

Trade name: MSC 101 Paper CD-R, 1-Part

(Contd. of page 2)

- **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:**

1310-58-3 potassium hydroxide

NES (Australia) 2 mg/m³

- **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.
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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

AUS

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 11.05.2006

Reviewed on 17.03.2006

Trade name: MSC 101 Paper CD-R, 1-Part

(Contd. of page 3)

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 (212°F)

· **Flash point:** 100°C (212°F)

· **Ignition temperature:** 225°C (437°F)

· **Self-igniting:** Product is not selfigniting.

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

· Explosion limits:

Lower:	0.7 Vol %
Upper:	22.0 Vol %

· **Vapour pressure at 20°C (68°F):** 23 hPa (17 mm Hg)

· **Density at 20°C (68°F):** 1.233 g/cm³

· **Solubility in / Miscibility with water:** Fully miscible.

· **pH-value at 20°C (68°F):** 13

· Viscosity:

Kinematic at 20°C (68°F): 12 s (DIN 53211/4)

· Solvent content:

Organic solvents:	11.5 %
Water:	41.3 %

· **Solids content:** 30.2 %

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:

· LD/LC50 values relevant for classification:

1310-58-3 potassium hydroxide

Oral	LD50	273 mg/kg (rat)
------	------	-----------------

(Contd. on page 5)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 11.05.2006

Reviewed on 17.03.2006

Trade name: MSC 101 Paper CD-R, 1-Part

(Contd. of page 4)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **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:
Irritant

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values.
A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, 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 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 (C5) Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1719
- **Packaging group:** III

(Contd. on page 6)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 11.05.2006

Reviewed on 17.03.2006

Trade name: MSC 101 Paper CD-R, 1-Part

(Contd. of page 5)

· **Hazard label:** 8
 · **Description of goods:** 1719 CAUSTIC ALKALI LIQUID, N.O.S. (potassium carbonate solution)

· **Maritime transport IMDG:**



· **IMDG Class:** 8
 · **UN Number:** 1719
 · **Label:** 8
 · **Packaging group:** III
 · **Marine pollutant:** No
 · **Proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S. (potassium carbonate solution)

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 8
 · **UN/ID Number:** 1719
 · **Label:** 8
 · **Packaging group:** III
 · **Proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S. (potassium carbonate solution)

15 Regulatory information

· **Australian Inventory of Chemical Substances**

7732-18-5	water, distilled, conductivity or of similar purity
584-08-7	potassium carbonate
25322-68-3	Polyethylene glycol
111-46-6	2,2'-oxybisethanol
	p-Phenylendiamin-Derivat (ACD 3)
3710-84-7	N,N-diethylhydroxylamine
60-00-4	edetic acid
1310-58-3	potassium hydroxide

· **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:**

Irritant
 Dangerous for the environment

· **Hazard-determining components of labelling:**

p-Phenylendiamin-Derivat (ACD 3)

(Contd. on page 7)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 11.05.2006

Reviewed on 17.03.2006

Trade name: MSC 101 Paper CD-R, 1-Part

(Contd. of page 6)

· Risk phrases:

Irritating to eyes and skin.

May cause sensitisation by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

Avoid contact with skin.

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

Wear suitable gloves.

This material and its container must be disposed of as hazardous waste.

· National regulations:

Class	Share in %
Wasser	41.3
NK	11.5

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.

· Department issuing MSDS: Productmanagement department

· Contact: Mr. Vollhofer, a&o imaging solutions, Tel.: + 49 7042 913-43