

Rollei GmbH

MATERIAL SAFETY DATA SHEET
acc. to 91/155 EC

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Rollei RLS LOW SPEED Film Developer BLACK AND WHITE

1. IDENTIFICATION OF SUBSTANCE

Product name/ ROLLEI RLS LOW SPEED
Trade name
Use for Photographic developer
Manufacturer/Supplier Hans O. Mahn GmbH & Co. KG, Brookstieg 4
D 22145 Hamburg-Stapelfeld
Telephone number + 49 40 237008-88

2. COMPOSITION/DATA ON COMPONENTS

Mixture of substances listed below with nonhazardous additions.

Description Mixture with inorganic and organic substances

Dangerous components:

Name	CAS-No.	% w/w
4-methylamino-phenol-sulphate	55-55-0	< 1
Ammonium chloride	12125-02-9	< 4

Other Informations: Main component: Water

3. HAZARDS IDENTIFICATION

Hazard designation: Harmful: Possible risk of irreversible effects if swallowed.
Irritant: Irritating to eyes and skin.
May cause sensitization by skin contact.

Information pertaining to particular dangers for man and environment: The mixture contain hydroquinone. This substance is classified as: carcinogen, category 3 and mutagen, category 3.
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4. FIRST AID MEASURES

General information Instantly remove any clothing soiled by the product.

First aid

general	Fresh air, eventual medical attention
inhalation	No special measure required.
skin	Wash with water and soap. Remove and wash contaminated clothing before reuse.
eyes	Flush with plenty of water at last 15 minutes. Get medical attention promptly.
swallowing	Rinse out mouth and then drink plenty of water. Do not induce vomiting; instantly call for medical help.

5. FIRE AND EXPLOSION HAZARD

Extinguishing media Use agent appropriate for surrounding.

Unsuitable extinguishing media None

Special fire fighting procedures Protection against inhalation of the fire gases.

Unusual fire and explosion hazard Fire or excessive heat may cause production of hazardous decomposition products (carbon monoxide, carbon dioxide, sulphur dioxide).

Protective equipment No special measure required.

Other informations: Product is not combustible.

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6. ACCIDENTAL RELEASE MEASURES**Person-related safety precautions** Wear suitable individual clothing.**Measures for environmental protection** Do not allow to enter drainage system, surface or ground water.**Measure for cleaning/collecting** Collect in a container and disposed of waste.**7. HANDLING AND STORAGE****Handling** Avoid the formation of dust. Avoid contact.**Information about protection against explosions and fires** No special measures required.**Storage** No special requirements.
Keep container tightly sealed. Temperature of storage: 5 to 25 °C**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Additional information about design of technical systems**

No further data; see item 7.

Components with values that require monitoring at the workplace

None

Additional information: The list that were valid during the compilation were used as basis.**Personal protective and hygienic measure** The usual precautionary measures should be adhered to general rules for handling chemicals. Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing. Wash hands during breaks and at the end of the work.**Breathing equipment** Not required.**Protection of hands** Protective gloves.**Eye protection** Safety glasses**9. PHYSICAL AND CHEMICAL PROPERTIES****Form** Liquid**Colour** Colourless to yellowish**Odour** Not characteristic**pH-value** 8-9 (at 20 °C)**Boiling point/boiling range** ≥ 100 °C**Melting point/melting range** ≤ 0 °C**Flash point** Not applicable**Self-inflamability** Product is not self igniting.**Danger of explosion** Product is not explosive.**Vapour pressure** Correspond to vapour pressure of water.**Density** 1,0-1,05 g/cm³ (20 °C)**Solubility in / Miscibility with Water** Fully miscible**Solvent content** None**Organic solvents****Water** 77 %**Solids content** 23 %**10. STABILITY AND REACTIVITY****Thermal decomposition/ conditions to be avoided** No decomposition if used according to specifications.

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Dangerous reactions React with strong acids. React with acids releasing Carbon dioxide
Dangerous products of decomposition None

11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD 50 320 mg/kg (rat)
Primary irritant effect
 on the skin no irritant effect
 on the eyes irritant effect
Sensitization no sensitization effect known.

12. ECOLOGICAL INFORMATION

General notes Water hazard class 1 (German Regulation)
Do not allow product to reach ground water, water bodies or sewage system.

13. DISPOSAL CONSIDERATIONS

Product Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.
EWC Code: 09 01 01
Uncleaned packaging Recommendation: Non contaminated packaging can be used for recycling. Empty contaminated thoroughly: They can be recycled after thorough and proper cleaning.
Recommended cleaning agent: Water, if necessary with cleaning agent.

14. TRANSPORT INFORMATION

Transport/Additional information Not dangerous according to the above specifications.

15. REGULATORY INFORMATION**Designation according to EC guidelines**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).

Code letter and hazard designation of product:

Xn



Harmful

Risk phrases

40, 43, 36/38

Safety phrases

2, 26, 36/37/39

Water hazard class1 (Self-assessment): slightly hazardous for water

16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.