Rollei GmbH               MATERIAL SAFETY DATA SHEET
acc. to 91/155 EC

Reviewed on  11.04.2008
Printing date 11.04.2008
Page 1/1

Rollei RLS LOW SPEED Film Developer  BLACK AND WHITE

1. IDENTIFICATION OF SUBSTANCE
Product name/Trade name: ROLLEI RLS LOW SPEED
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.
- 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.
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-inflammability
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.
Rollei RLS LOW SPEED Film Developer  BLACK AND WHITE

Dangerous reactions
React with strong acids. React with acids releasing Carbon dioxide

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. DISPONSAL 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 class 1 (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.