

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 15.09.2014

version no: 1

Revision: 15.09.2014

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- . **1.1 Product identifier**
- . **Trade name:** (FD-10) B & W Film Developer
- . **Article number:** 100140
- . **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- . **Application of the substance / the mixture** Developer for photographic use
- . **1.3 Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**  
Fotospeed (Jay House Ltd.)  
Unit 6B, Park Lane Industrial Estate, Corsham, Wiltshire  
SN13 9LG  
01249 714555  
www.fotospeed.com; sales@fotospeed.com
- . **Further information obtainable from:** sales@fotospeed.com
- . **1.4 Emergency telephone number:** 01249 714555

### SECTION 2: Hazards identification

- . **2.1 Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008**  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- . **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic 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.
- . **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- . **2.2 Label elements**
- . **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- . **Hazard pictograms** Void
- . **Signal word** Void
- . **Hazard statements**  
H412 Harmful to aquatic life with long lasting effects.
- . **Precautionary statements**  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local regulations.
- . **Additional information:**  
Contains Bis(4-hydroxy-N-methylanilinium) sulphate, hydroquinone (1,4-dihydroxybenzene). May produce an allergic reaction.
- . **2.3 Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Description: Mixture of substances listed below and with nonhazardous additions.

Dangerous components:

CAS: 584-08-7 EINECS: 209-529-3 Reg.nr.: 01-2119532646-36	potassium carbonate Xi R36/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%
CAS: 55-55-0 EINECS: 200-237-1 Index number: 650-031-00-4	Bis(4-hydroxy-N-methylanilinium) sulphate Xn R22-48/22; Xi R43; N R50/53 STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	0.1- <1%
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4 Reg.nr.: 01-2119524016-51	hydroquinone (1,4-dihydroxybenzene) Xn R22-40-68; Xi R41; Xi R43; N R50 Carc. Cat. 3, Muta. Cat. 3 Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317	0.1- <1%
CAS: 92-43-3 EINECS: 202-155-1 Index number: 606-022-00-2	1-phenyl-3-pyrazolidone (Phenidone A ) Xn R22; N R51/53 Aquatic Chronic 2, H411; Acute Tox. 4, H302	0.1- <1%

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing/shoes soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately rinse with water.

After eye contact: Rinse opened eye for several (15 min) under running water.

After swallowing: Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

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

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Sulphur dioxide (SO2)

5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

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**. 6.2 Environmental precautions:**

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.

**. 6.3 Methods and material for containment and cleaning up:**

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

Pick up mechanically.

**. 6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

**. 7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

**. Information about fire - and explosion protection:** No special measures required.

**. 7.2 Conditions for safe storage, including any incompatibilities**

**. Storage:**

**. Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**. Information about storage in one common storage facility:** Store away from foodstuffs.

**. Further information about storage conditions:**

Protect from heat and direct sunlight.

Recommended storage temperature: 5-25 °C

Protect from exposure to the light.

**. 7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**. Additional information about design of technical facilities:** No further data; see item 7.

**. 8.1 Control parameters**

**. Ingredients with limit values that require monitoring at the workplace:**

**102-71-6 2,2',2''-nitritoltriethanol (alkanolamine) (5-10%)**

TLV (USA)	Long-term value: 5 mg/m <sup>3</sup>
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**. Additional information:** The lists valid during the making were used as basis.

**. 8.2 Exposure controls**

**. Personal protective equipment:**

**. General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

**. Respiratory protection:** Not required.

**. Protection of hands:**



Protective gloves

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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.

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

**. Penetration time of glove material**

Glove material	breakthrough-time	layer thickness
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Butyl rubber:	>480 min	≥0,4mm
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Nitrile rubber:	>480 min	≥0,38mm
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Neoprene:	>240 min	≥0,65mm
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The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**. Eye protection:** Goggles recommended during refilling

**. Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

**. 9.1 Information on basic physical and chemical properties**

**. General Information**

**. Appearance:**

<b>Form:</b>	Fluid
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<b>Colour:</b>	Light yellow
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<b>. Odour:</b>	Odourless
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<b>. pH-value at 20 °C:</b>	10.3
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**. Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
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<b>Boiling point/Boiling range:</b>	> 100 °C
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<b>. Flash point:</b>	Not applicable.
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<b>. Self-igniting:</b>	Product is not selfigniting.
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<b>. Danger of explosion:</b>	Product does not present an explosion hazard.
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<b>. Vapour pressure at 20 °C:</b>	23 hPa
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<b>. Density at 20 °C:</b>	1.113 g/cm³
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<b>. Solubility in / Miscibility with water:</b>	Fully miscible.
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**. Solvent content:**

<b>Organic solvents:</b>	10.1 %
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<b>Water:</b>	>80 %
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<b>. 9.2 Other information</b>	No further relevant information available.
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**SECTION 10: Stability and reactivity**

**. 10.1 Reactivity**

**. 10.2 Chemical stability**

**. Thermal decomposition / conditions to be avoided:** Stable at environment temperature.

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- . **10.3 Possibility of hazardous reactions** Reacts with acids releasing sulphur dioxide.
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:**
  - Nitrogen oxides (NO<sub>x</sub>)
  - Carbon monoxide (CO)
  - Sulphur dioxide (SO<sub>2</sub>)
- . **10.6 Hazardous decomposition products:** Irritant gases/vapours

**SECTION 11: Toxicological information**

- . **11.1 Information on toxicological effects**
- . **Acute toxicity:**
- . **Primary irritant effect:**
  - . **on the skin:** No irritant effect.
  - . **on the eye:** No irritating effect.
- . **Sensitization:** Sensitizing effect by skin contact is possible by prolonged exposure.

**SECTION 12: Ecological information**

. **12.1 Toxicity**

. **Aquatic toxicity:**

**55-55-0 Bis(4-hydroxy-N-methylanilinium) sulphate**

EC50	72h: 10 mg/l (alg)
	19 mg/l (daphnia magna (Großer Wasserfloh))
	48h: 0.02 mg/l (inv)

- . **12.2 Persistence and degradability** No further relevant information available.
- . **12.3 Bioaccumulative potential** No further relevant information available.
- . **12.4 Mobility in soil** No further relevant information available.
- . **Ecotoxicological effects:**
- . **Remark:** Harmful to fish
- . **Additional ecological information:**
- . **General notes:**
  - Do not allow product to reach ground water, water course or sewage system.
  - Harmful to aquatic organisms
  - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  - Danger to drinking water if even small quantities leak into the ground.
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- . **13.1 Waste treatment methods**
- . **Recommendation**
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.

. **European waste catalogue**

09 01 01*	water-based developer and activator solutions
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- . **Uncleaned packaging:**
- . **Recommendation:** Disposal must be made according to official regulations.
- . **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

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|--|-----------------|
| . 14.1 UN-Number   |                 |
| . ADR, ADN, IMDG, IATA   | Void            |
| . 14.2 UN proper shipping name   |                 |
| . ADR  | Void            |
| . ADN, IMDG, IATA  | Void            |
| . 14.3 Transport hazard class(es)  |                 |
| . ADR, ADN, IMDG, IATA   |                 |
| . Class  | Void            |
| . 14.4 Packing group   |                 |
| . ADR, IMDG, IATA  | Void            |
| . 14.5 Environmental hazards:  |                 |
| . Marine pollutant:  | No              |
| . 14.6 Special precautions for user  | Not applicable. |
| . 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| . UN "Model Regulation":   | -               |

SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- . **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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 phrases**  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H341 Suspected of causing genetic defects.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
R22 Harmful if swallowed.  
R36/38 Irritating to eyes and skin.

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- R40 Limited evidence of a carcinogenic effect.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- R50 Very toxic to aquatic organisms.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R68 Possible risk of irreversible effects.

. **Contact:** e-mail: sida@tetenal.com

. **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
- Muta. 2: Germ cell mutagenicity, Hazard Category 2
- Carc. 2: Carcinogenicity, Hazard Category 2
- STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
- Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

. **\* Data compared to the previous version altered.**