

## Material Safety Data Sheet According to 91/155 EEC

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

- **Product details**

- **Trade name:** C41 digibase film developer STARTER

- **Article number:** RDC02FB, RDC01FB

- **Application of the substance / the preparation** Photographic color-developer concentrateat

- **Manufacturer/Supplier:**

compard KG

Mercatorstraße 65

D-21502 Geesthacht

Germany

- **Further information obtainable from:** Productmanagement, Tel.: + 49 4152 1392-844

- **Information in case of emergency:** Telefon : + 49 4152 1392-844

### 2 Composition/information on ingredients

- **Chemical characterization**

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

• <b>Dangerous components:</b>			
CAS: 298-14-6 EINECS: 206-059-0	kaliumbicarbonat	T N R:25-43-48/22-50-53	10-15 %
CAS: 584-08-7 EINECS: 209-529-3	kaliumcarbonat	Xn; R22, R31, Xi; R41	5-10 %
CAS: 7732-18-5 EINECS: 231-791-2	WATER	-	70-80 %

- **Additional information:**

For the wording of the listed risk phrases refer to section 16

### 3 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.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

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• **Trade name:** C41 digibase film developer STARTER

### 4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. If symptoms persist consult doctor.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray.  
Fight larger fires with water spray or alcohol resistant foam.
- **Further information:** Keep containers cool by spraying with water.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**  
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.
- **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.

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• **Trade name:** C41 digibase film developer STARTER

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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

- |  |   |                                    |
|--|---|------------------------------------|
| • <b>General Information</b>                     | <b>Form:</b>                                  | Fluid                              |
|  | <b>Colour:</b>                                | According to product specification |
|  | <b>Odour:</b>                                 | non                                |
| • <b>Change in condition</b>                     | <b>Melting point/Melting range:</b>           | Undetermined.                      |
|  | <b>Boiling point/Boiling range:</b>           | >100°C                             |
| • <b>Flash point:</b>                            | Not applicable.                               |                                    |
| • <b>Self-igniting:</b>                          | Product is not selfigniting.                  |                                    |
| • <b>Danger of explosion:</b>                    | Product does not present an explosion hazard. |                                    |
| • <b>Vapour pressure at 20°C:</b>                | 17 hPa  |                                    |
| • <b>Density at 20°C:</b>                        | 1,18 g/cm <sup>3</sup>                        |                                    |
| • <b>Solubility in / Miscibility with water:</b> | Fully miscible.                               |                                    |
| • <b>pH-value at 20°C:</b>                       | 9,28  |                                    |

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• **Trade name:** C41 digibase film developer STARTER

### 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:**

Oral	LD50	> 2000 mg/kg
------	------	--------------

- **Primary irritant effect:**
  - **on the skin:** Caustic effect on skin and mucous membranes.
  - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effects known.

• **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:

Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

• **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

**EWC waste disposal No. 09 01 01 Water-based developer and activator solutions**

- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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• Trade name: C41 digibase film developer STARTER

### 14 Transport information

ADR/RID -

IMDG -

ICAO/IATA -

### 15 Regulatory information

• **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **Safety phrases:** S37 Wear suitable gloves.
- S60 This material and its container must be disposed of as hazardous waste.
- S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

• **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

### 16 Other information

The use of the preparation is restricted to professional users!

The above mentioned data correspond to our present state of knowledge and experience.

The safety data sheet serves as description of the products in regard to necessary safety measures.

The indications have not the meaning of guarantees on properties.

• **Department issuing MSDS:** Productmanagement department

• **Contact:** Tel.: + 49 4152 1392 844

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## Material Safety Data Sheet According to 91/155 EEC

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

- **Product details**
- **Trade name:** C41 digibase film developer PART A
- **Article number:** RDC02FA, RDC01FA
- **Application of the substance / the preparation** Photographic color-developer concentrate
- **Manufacturer/Supplier:**  
compard KG  
Mercatorstraße 65  
D-21502 Geesthacht  
Germany
- **Further information obtainable from:** Productmanagement, Tel.: + 49 4152 1392-844
- **Information in case of emergency:** Telefon : + 49 4152 1392-844

### 2 Composition/information on ingredients

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

• <b>Dangerous components:</b>			
CAS: 584-08-7 EINECS: 209-529-3	POTASSIUM CARBONATE	Xi; R36	20-30 %
CAS: 1310-58-3 EINECS: 215-181-3	POTASSIUM HYDROXIDE	C; R 22-35	-1 %

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

### 3 Hazards identification

- **Hazard description::**



**Xi: Irritant**

- **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.

- R22 : Harmful if swallowed.**
- R31 : Contact with acids liberates toxic gas.**
- R35 : Causes severe burns.**
- R36 : Irritating to eyes.**

- **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## Material Safety Data Sheet According to 91/155 EEC

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• **Trade name:** C41 digibase film developer PART A

### 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** 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. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray.  
Fight larger fires with water spray or alcohol resistant foam.
- **Further information:** Keep containers cool by spraying with water.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **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). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:** Avoid eye and skin contact. Wash hands and exposed skin before eating, drinking or smoking and after work. Use only in a well ventilated area. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wear suitable protective clothing, gloves and eye/face protection. Do not consume or store food in the working area.
- **Storage:** Keep containers tightly closed. Store in a well ventilated, cool, dry area.  
Storage temperature should be higher than +5°C
- **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
  - TLV-C = 2 mg/m<sup>3</sup>
  - MAK (Deutschland, TRGS 900) = NAv
  - TLV-STEL = 2 mg/m<sup>3</sup>
- **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.

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• **Trade name:** C41 digibase film developer PART A

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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

• <b>General Information</b>	<b>Form:</b>	Fluid
	<b>Colour:</b>	According to product specification
	<b>Odour:</b>	Characteristic
• <b>Change in condition</b>	<b>Melting point/Melting range:</b>	Undetermined.
	<b>Boiling point/Boiling range:</b>	>100°C
• <b>Flash point:</b>	Not applicable.	
• <b>Self-igniting:</b>	Product is not selfigniting.	
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.	
• <b>Vapour pressure at 20°C:</b>	18 hPa	
• <b>Density at 20°C:</b>	1,39 g/cm <sup>3</sup>	
• <b>Solubility in / Miscibility with water:</b>	Fully miscible.	
• <b>pH-value at 20°C:</b>	11,91	

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• Trade name: C41 digibase film developer PART A

### 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:

• <b>LD/LC50 values relevant for classification:</b>		
<b>584-08-7 POTASSIUM CARBONATE</b>		
Oral	LD50	>2000 mg/kg
<b>1310-58-3 POTASSIUM HYDROXIDE</b>		
Oral	LD50	273 mg/kg (rat)

- **Primary irritant effect:**
  - **on the skin:** Caustic effect on skin and mucous membranes.
  - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effects known.

 • **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:

Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

- **Ecotoxicological effects:** Not available
- **Remark:** Not available
- **General notes:** Not available

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• **Trade name: C41 digibase film developer PART A**

### 13 Disposal considerations

**EWC waste disposal No. 09 01 01 Water-based developer and activator solutions**

- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of according to local and national regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- **Not classified**

### 15 Regulatory information

• **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: Xi: Irritant**

- **Risk phrases:**
  - R22 Harmful if swallowed.
  - R31 Contact with acids liberates toxic gas.
  - R35 Causes severe burns.
  - R36 Irritating to eyes.
- **Safety phrases:**
  - 24 Avoid contact with skin.
  - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 16 Other information

The use of the preparation is restricted to professional users!

The above mentioned data correspond to our present state of knowledge and experience.

The safety data sheet serves as description of the products in regard to necessary safety measures.

The indications have not the meaning of guarantees on properties.

• **Department issuing MSDS:** Productmanagement department

• **Contact:** Tel.: + 49 4152 1392 844

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## Material Safety Data Sheet According to 91/155 EEC

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

- **Product details**
- **Trade name:** C41 digibase film developer PART B
- **Article number:** RDC02FB, RDC01FB
- **Application of the substance / the preparation** Photographic color-developer concentrate
- **Manufacturer/Supplier:**  
compard KG  
Mercatorstraße 65  
D-21502 Geesthacht  
Germany
- **Further information obtainable from:** Productmanagement, Tel.: + 49 4152 1392-844
- **Information in case of emergency:** Telefon : + 49 4152 1392-844

### 2 Composition/information on ingredients

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

• <b>Dangerous components:</b>			
CAS: 10039-54-0 EINECS: 233-118-8	HYDROXYLAMINE SULPHATE	Xn; R22-48/22 Xi; R36/38 R43, N; R50	10-15 %
CAS: 7732-18-5 EINECS: 231-791-2	WATER	-	85-90 %

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

### 3 Hazards identification

- **Hazard description::**



**Xn: Noxious**

- **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.

- R22** Harmful if swallowed.
- R36/38** Irritating to eyes and skin.
- R43** May cause sensitization by skin contact.
- R48/22** Harmful: danger of serious damage to health by prolonged exposure if swallowed.

- **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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• **Trade name:** C41 digibase film developer PART B

### 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** 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. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray.  
Fight larger fires with water spray or alcohol resistant foam.
- **Further information:** Keep containers cool by spraying with water.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **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). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:** Avoid eye and skin contact. Wash hands and exposed skin before eating, drinking or smoking and after work. Use only in a well ventilated area. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wear suitable protective clothing, gloves and eye/face protection. Do not consume or store food in the working area.
- **Storage:** Keep containers tightly closed. Store in a well ventilated, cool, dry area.  
Storage temperature should be higher than +5°C
- **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:**  
10039-54-0 HYDROXYLAMINE SULPHATE  
MAK (Deutschland, TRGS 900)= NAv  
TLV-TWA = NAv
- **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.

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• **Trade name:** C41 digibase film developer PART B

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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

• <b>General Information</b>	<b>Form:</b>	Fluid
	<b>Colour:</b>	According to product specification
	<b>Odour:</b>	Characteristic
• <b>Change in condition</b>	<b>Melting point/Melting range:</b>	Undetermined.
	<b>Boiling point/Boiling range:</b>	>100°C
• <b>Flash point:</b>	Not applicable.	
• <b>Self-igniting:</b>	Product is not selfigniting.	
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.	
• <b>Vapour pressure at 20°C:</b>	18 hPa	
• <b>Density at 20°C:</b>	1,020 g/cm <sup>3</sup>	
• <b>Solubility in / Miscibility with water:</b>	Fully miscible.	
• <b>pH-value at 20°C:</b>	3,8	

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• Trade name: C41 digibase film developer PART B

### 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:

• <b>LD/LC50 values relevant for classification:</b>		
<b>HYDROXYLAMINE SULPHATE</b>		
Oral	LD50	600 mg/kg
<b>1310-58-3 POTASSIUM HYDROXIDE</b>		
Dermal rabbit	LD50	1500 mg/kg (rat)

- **Primary irritant effect:**
  - **on the skin:** Caustic effect on skin and mucous membranes.
  - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effects known.

 • **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:

Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

- **Ecotoxicological effects:** Not available
- **BSB :** +/- 3 g/l
- **CSB :** +/- 50 g/l
- **LC50-96 Stunden -Fisch [mg/l] :** 10 - 100

### 13 Disposal considerations

**EWC waste disposal No. 09 01 01 Water-based developer and activator solutions**

- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of according to local and national regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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· Trade name: C41 digibase film developer PART B

### 14 Transport information



- Land transport ADR/RID: UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Bis(hydroxylammonium) sulphate), 8, III
- ADR/RID: 8
- Danger code (Kemler): 80
- UN-Number: 3264
- Packaging group: III
- Hazard label: 8
- GGVSee/IMO-IMDG code: UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Bis(hydroxylammonium) sulphate), 8, 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.

#### · Code letter and hazard designation of product: Xn: Noxious

- |                   |        |   |
|-------------------|--------|---|
| · Risk phrases:   | R36/38 | Irritating to eyes and skin.  |
|                   | R43    | May cause sensitization by skin contact.  |
|                   | R48/22 | Harmful: danger of serious damage to health by prolonged exposure if swallowed.               |
| · Safety phrases: | S24    | Avoid contact with skin.  |
|                   | S26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
|                   | S37    | Wear suitable gloves.   |

#### Other information :

WGK: 3

BAG T n° (CH): 621 223

Toxicity class (CH): 3

### 16 Other information

The use of the preparation is restricted to professional users!

The above mentioned data correspond to our present state of knowledge and experience.

The safety data sheet serves as description of the products in regard to necessary safety measures.

The indications have not the meaning of guarantees on properties.

· Department issuing MSDS: Productmanagement department

· Contact: Tel.: + 49 4152 1392 844

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## Material Safety Data Sheet According to 91/155 EEC

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

- **Product details**
- **Trade name:** C41 digibase film developer PART C
- **Article number:** RDC02FB, RDC01FB
- **Application of the substance / the preparation** Photographic color-developer concentrate
- **Manufacturer/Supplier:**  
compard KG  
Mercatorstraße 65  
D-21502 Geesthacht  
Germany
- **Further information obtainable from:** Productmanagement, Tel.: + 49 4152 1392-844
- **Information in case of emergency:** Telefon : + 49 4152 1392-844

### 2 Composition/information on ingredients

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

• <b>Dangerous components:</b>			
CAS: 25646-77-9 EINECS: 247-162-0	P-PHENYLENEDIAMINE DERIVATIVE	T N R:25-43-48/22-50-53	3-5 %
CAS: 7681-57-4 EINECS: 231-673-0	DINATRIUMDISULFIT	Xn; R22, R31, Xi; R41	1-5 %
CAS: 7732-18-5 EINECS: 231-791-2	WATER	-	85-90 %

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

### 3 Hazards identification

- **Hazard description::**



**Xn: Noxious**  
**N: 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.  
**R22 Harmful if swallowed.**  
**R43 May cause sensitization by skin contact.**  
**R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.**  
**R51/53 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.



## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 1)  
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• **Trade name:** C41 digibase film developer PART C

### 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** 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. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray.  
Fight larger fires with water spray or alcohol resistant foam.
- **Further information:** Keep containers cool by spraying with water.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **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). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:** Avoid eye and skin contact. Wash hands and exposed skin before eating, drinking or smoking and after work. Use only in a well ventilated area. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wear suitable protective clothing, gloves and eye/face protection. Do not consume or store food in the working area.
- **Storage:** Keep containers tightly closed. Store in a well ventilated, cool, dry area.  
Storage temperature should be higher than +5°C
- **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:**  
**P-PHENYLENEDIAMINE DERIVATIVE**  
TLV-TWA = NAV
- **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.

## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 2)

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• **Trade name:** C41 digibase film developer PART C

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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

• <b>General Information</b>	<b>Form:</b>	Fluid
	<b>Colour:</b>	yellow
	<b>Odour:</b>	Characteristic
• <b>Change in condition</b>	<b>Melting point/Melting range:</b>	Undetermined.
	<b>Boiling point/Boiling range:</b>	>100°C
• <b>Flash point:</b>	Not applicable.	
• <b>Self-igniting:</b>	Product is not selfigniting.	
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.	
• <b>Vapour pressure at 20°C:</b>	18 hPa	
• <b>Density at 20°C:</b>	1,026 g/cm <sup>3</sup>	
• <b>Solubility in / Miscibility with water:</b>	Fully miscible.	
• <b>pH-value at 20°C:</b>	2,82	

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

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**Material Safety Data Sheet  
According to 91/155 EEC**

(Contd. of page 3)

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• Trade name: C41 digibase film developer PART C

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Keep away from alkalis. Keep away from oxidising material(s).
- **Dangerous decomposition products:** Formation of CO<sub>2</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub> is possible.

**11 Toxicological information**

• Acute toxicity:

• LD/LC50 values relevant for classification:		
P-PHENYLENEDIAMINE DERIVATIVE		
Oral	LD50	58 mg/kg

- **Primary irritant effect:**
  - **on the skin:** Caustic effect on skin and mucous membranes.
  - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effects known.

• **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:

Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**12 Ecological information**

**Ecotoxicity (INGREDIENTS INFORMATION)**

**P-PHENYLENEDIAMINE DERIVATIVE**

**LC50 (Daphnia, 48h) = 0,63 - 0,78 mg/l**

**Mobility** Not available

**Persistence and Degradability** Not available

**Bioaccumulative potential** Not available

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

**BSB : 30 g/l**

**CSB : 250 g/l**

**WGK-Klasse (Deutschland) : 3**

**13 Disposal considerations**

**EWC waste disposal No. 09 01 01 Water-based developer and activator solutions**

- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of according to local and national regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 4)

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• Trade name: C41 digibase film developer PART C

### 14 Transport information

UN N°: 3265

PSN : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Organic amine sulphate)

#### ADR/RID

Class: 8	Labels : 8	Pack. Group:III
Tun.Code : E	TREMc card : 8.3265E-301	Spec. Prov.:274
Pack. Inst.: P001,IBC03,LP01,R001		Lim. Quant.:LQ7



#### IMDG

Class: 8	Subs. Risk :NA	Pack. Group:III
EmS fire: F-A	EmS Spill. :S-B	IBC. Inst. :IBC03
Pack. Inst.: P001,LP01	Lim. Quant.:5L	Mar.Poll:N

#### ICAO/IATA

Class: 8	Subs. Risk :NA	Pack. Group:III
Passenger and Cargo Aircraft.	Pkg Inst:818	Max Net Qty/Pkg:5L
Cargo Aircraft Only	Pkg Inst:820	Max Net Qty/Pkg:60L
Ltd Qty	Pkg Inst:1L	Max Net Qty/Pkg:Y818

### 15 Regulatory information

#### • 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: Xn, N

- Risk phrases:
- R22 Harmful if swallowed.
  - R43 May cause sensitization by skin contact.
  - R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
  - R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases:
- S24 Avoid contact with skin.
  - S37 Wear suitable gloves.
  - S60 This material and its container must be disposed of as hazardous waste.
  - S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

#### Other information :

WGK: 3

### 16 Other information

The use of the preparation is restricted to professional users!

The above mentioned data correspond to our present state of knowledge and experience.

The safety data sheet serves as description of the products in regard to necessary safety measures.

The indications have not the meaning of guarantees on properties.

• Department issuing MSDS: Productmanagement department

• Contact: Tel.: + 49 4152 1392 844

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## Material Safety Data Sheet According to 91/155 EEC

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

- **Product details**
- **Trade name:** C41 digibase film Bleacher
- **Article number:** RDC0BA
- **Application of the substance / the preparation** Photographic color-developer concentrate
- **Manufacturer/Supplier:**  
compard KG  
Mercatorstraße 65  
D-21502 Geesthacht  
Germany
- **Further information obtainable from:** Productmanagement, Tel.: + 49 4152 1392-844
- **Information in case of emergency:** Telefon : + 49 4152 1392-844

### 2 Composition/information on ingredients

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

• <b>Dangerous components:</b>			
CAS: 1939-36-2 EINECS: 400-400-9	Propylenediaminetetraacetic acid	XN,R22,R36,S2,S22,S26	5-10 %
CAS: 64-19-7 EINECS: 607-002-00-6	Acetic acid	C,R10,R35,S1/2, S23,S26,S45	10-15 %
CAS: 1336-21-6 EINECS: 215-647-6	Ammonium hydroxide	C,N,R34,R50,S1/2,S26, S36/37/39,S45,S61	5-10,38 %
CAS: 7732-18-5 EINECS: 231-791-2	Water		25 - 35 %

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

### 3 Hazards identification

- **Hazard description:**



**Xi: Irritant**

- **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.

- R10 Flammable**
- R22 Harmful if swallowed.**
- R34 Causes burns.**
- R35 Causes severe burns.**
- R36 Irritating to eyes.**
- R50 Very toxic to aquatic organisms**

- **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

(Contd. on page 2)

## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 1)  
Page: 2/5

• **Trade name:** C41 digibase film Bleacher

### 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** 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. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray.  
Fight larger fires with water spray or alcohol resistant foam.
- **Further information:** Keep containers cool by spraying with water.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **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). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:** Avoid eye and skin contact. Wash hands and exposed skin before eating, drinking or smoking and after work. Use only in a well ventilated area. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wear suitable protective clothing, gloves and eye/face protection. Do not consume or store food in the working area.
- **Storage:** Keep containers tightly closed. Store in a well ventilated, cool, dry area.  
Storage temperature should be higher than +5°C
- **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**
  - TLV-C = 2 mg/m<sup>3</sup>
  - MAK (Deutschland, TRGS 900) = NAv
  - TLV-STEL = 2 mg/m<sup>3</sup>
- **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.

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## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 2)

Page: 3/5

• **Trade name: C41 digibase film Bleacher**

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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

• <b>General Information</b>	<b>Form:</b>	Fluid
	<b>Colour:</b>	light brown
	<b>Odour:</b>	Aceticacid alike
• <b>Change in condition</b>	<b>Melting point/Melting range:</b>	Undetermined.
	<b>Boiling point/Boiling range:</b>	>100°C
• <b>Flash point:</b>	Not applicable.	
• <b>Self-igniting:</b>	Product is not selfigniting.	
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.	
• <b>Density at 20°C:</b>	1,15 g/cm <sup>3</sup>	
• <b>Solubility in / Miscibility with water:</b>	Fully miscible.	
• <b>pH-value at 20°C:</b>	4,3	

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

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## Material Safety Data Sheet According to 91/155 EEC

 (Contd. of page 3)  
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• Trade name: C41 digibase film Bleacher

### 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:

• <b>LD/LC50 values relevant for classification:</b>		
<b>AMMONIUM HYDROXIDE</b>		
Oral	LD50	350 mg/kg

- **Primary irritant effect:**
  - **on the skin:** Caustic effect on skin and mucous membranes.
  - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effects known.

 • **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:

Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

- **Ecotoxicological effects:** AMMONIUM HYDROXIDE  
LC50 (Daphnia, 48h) = 24,5 mg/l
- **Mobility** Not available
- **Persistence and Degradability** Not available
- **Bioaccumulative potential** Not available

### 13 Disposal considerations

**EWC waste disposal No. 09 01 05 Bleach solutions and bleach fixer solutions**

- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of according to local and national regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

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## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 4)

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• Trade name: C41 digibase film Bleacher

### 14 Transport information

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


- ADR/RID: 8 (C5) Corrosive substances
- Danger code (Kemler): 80
- UN-Number: 3265
- Packaging group: III
- Hazard label: 8
- Description of goods: hazardous corrosive liquid substances

• Maritime transport IMDG:



- IMDG: 8
- UN-Number: 3265
- Label: 8-15
- Packaging group: III
- MFAG: 760
- Proper shipping name: hazardous corrosive liquid substances

• Air transport ICAO-TI and IATA-DGR: • ICAO/IATA-Klasse: 8



- UN/ID-Nummer: 3265
- Label: 8
- Packaging group: III
- Assignment (Cargo Aircraft) 820
- Proper shipping name: hazardous corrosive liquid substances

### 15 Regulatory information

• 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: Xi: Irritant

• Risk phrases: R36/38 Irritating to eyes and skin

• Safety phrases: S37/39 Wear suitable gloves and eye/face protection

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### 16 Other information

The use of the preparation is restricted to professional users!

The above mentioned data correspond to our present state of knowledge and experience.

The safety data sheet serves as description of the products in regard to necessary safety measures.

The indications have not the meaning of guarantees on properties.

• Department issuing MSDS: Productmanagement department

• Contact: Tel.: + 49 4152 1392 844

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## Material Safety Data Sheet According to 91/155 EEC

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

- **Product details**
- **Trade name:** C41 digibase FIXER
- **Article number:** RDC01BB
- **Application of the substance / the preparation** Photographic color-developer concentrate
- **Manufacturer/Supplier:**  
compard KG  
Mercatorstraße 65  
D-21502 Geesthacht  
Germany
- **Further information obtainable from:** Productmanagement, Tel.: + 49 4152 1392-844
- **Information in case of emergency:** Telefon : + 49 4152 1392-844

### 2 Composition/information on ingredients

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

• <b>Dangerous components:</b>			
CAS: 7681-57-4 EINECS: 231-673-0	Dinatriumdisulfit	XN,R22,R31,R41	2-7 %
CAS: 7783-18-8 EINECS: 2319820	ammonium thiosulfat		50-60 %
CAS: 7732-18-5 EINECS: 231-791-2	WATER	-	30-40 %

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

### 3 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.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 1)  
Page: 2/5

• **Trade name:** C41 digibase film FIXER

### 4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. If symptoms persist consult doctor.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray.  
Fight larger fires with water spray or alcohol resistant foam.
- **Further information:** Keep containers cool by spraying with water.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**  
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.
- **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.

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

(Contd. on page 3)

## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 2)

Page: 3/5

• **Trade name:** C41 digibase film FIXER

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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

- |  |   |               |
|--|---|---------------|
| • <b>General Information</b>                     | <b>Form:</b>                                  | Fluid         |
|  | <b>Colour:</b>                                | yellow        |
|  | <b>Odour:</b>                                 | Ammoniac      |
| • <b>Change in condition</b>                     | <b>Melting point/Melting range:</b>           | Undetermined. |
|  | <b>Boiling point/Boiling range:</b>           | >100°C        |
| • <b>Flash point:</b>                            | Not applicable.                               |               |
| • <b>Self-igniting:</b>                          | Product is not selfigniting.                  |               |
| • <b>Danger of explosion:</b>                    | Product does not present an explosion hazard. |               |
| • <b>Vapour pressure at 20°C:</b>                | 17 hPa  |               |
| • <b>Density at 20°C:</b>                        | 1,36 g/cm <sup>3</sup>                        |               |
| • <b>Solubility in / Miscibility with water:</b> | Fully miscible.                               |               |
| • <b>pH-value at 20°C:</b>                       | 6,65  |               |

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

(Contd. on page 4)

## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 3)  
Page: 4/5

• **Trade name:** C41 digibase film FIXER

### 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:** No toxicological reactions known
- **Primary irritant effect:**
  - **on the skin:** Caustic effect on skin and mucous membranes.
  - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effects known.

• **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:

Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

**EWC waste disposal No. 09 01 04 Fixer solutions**

- **Recommendation:** Dispose of according to local and national regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 4)  
Page: 5/5

• Trade name: C41 digibase film FIXER

### 14 Transport information

ADR/RID -

IMDG -

ICAO/IATA -

### 15 Regulatory information

• **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **Safety phrases:**
- S37 Wear suitable gloves.
  - S60 This material and its container must be disposed of as hazardous waste.
  - S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.
  - S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

• **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

### 16 Other information

The use of the preparation is restricted to professional users!

The above mentioned data correspond to our present state of knowledge and experience.

The safety data sheet serves as description of the products in regard to necessary safety measures.

The indications have not the meaning of guarantees on properties.

• **Department issuing MSDS:** Productmanagement department

• **Contact:** Tel.: + 49 4152 1392 844

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

## Material Safety Data Sheet According to 91/155 EEC

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

- **Product details**
- **Trade name:** C41 digibase Stabilizer
- **Article number:** RDC0BA
- **Application of the substance / the preparation** Photographic concentrate
- **Manufacturer/Supplier:**  
compard KG  
Mercatorstraße 65  
D-21502 Geesthacht  
Germany
- **Further information obtainable from:** Productmanagement, Tel.: + 49 4152 1392-844
- **Information in case of emergency:** Telefon : + 49 4152 1392-844

### 2 Composition/information on ingredients

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

• <b>Dangerous components:</b>			
CAS: 100-97-0 EINECS: 202-905-8	1,3,5,7-Tetraazatricyclo [3.3.1.1 <sup>3,7</sup> ]decane	F,XN,R11,R42/43,S2, S16,S22,S24,S37	1-3 %
CAS: 2634-33-5 EINECS: 220-120-9	1,2-BENZISOTHIAZOLIN-3- ONE	XnN R:22-38-41-43-50	1-5 %
CAS: 7732-18-5 EINECS: 231-791-2	Water		80-90 %

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

### 3 Hazards identification

- **Hazard description:**



**Xn: Noxious**

- **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.

- R11** Highly flammable
- R22** Harmful if swallowed.
- R38** Irritating to skin.
- R41** Risk of serious damage to eyes.
- R42/43** May cause sensitization by inhalation and skin contact.
- R43** May cause sensitization by skin contact.
- R50** Very toxic to aquatic organisms

- **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 1)  
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• **Trade name:** C41 digibase Stabilizer

### 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** 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. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray.  
Fight larger fires with water spray or alcohol resistant foam.
- **Further information:** Keep containers cool by spraying with water.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **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). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:** Avoid eye and skin contact. Wash hands and exposed skin before eating, drinking or smoking and after work. Use only in a well ventilated area. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wear suitable protective clothing, gloves and eye/face protection. Do not consume or store food in the working area.
- **Storage:** Keep containers tightly closed. Store in a well ventilated, cool, dry area.  
Storage temperature should be higher than +5°C
- **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:**
  - 1,2-BENZISOTHIAZOLIN-3-ONE
  - MAK ( Deutschland, TRGS 900 ) = Not available
  - TLV-TWA = Not available
- **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.

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## Material Safety Data Sheet According to 91/155 EEC

(Contd. of page 2)

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• **Trade name:** C41 digibase Stabilizer

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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

• <b>General Information</b>	<b>Form:</b>	Fluid
	<b>Colour:</b>	light brown
	<b>Odour:</b>	no
• <b>Change in condition</b>	<b>Melting point/Melting range:</b>	Undetermined.
	<b>Boiling point/Boiling range:</b>	>100°C
• <b>Flash point:</b>	Not applicable.	
• <b>Self-igniting:</b>	Product is not selfigniting.	
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.	
• <b>Density at 20°C:</b>	1,03 g/cm <sup>3</sup>	
• <b>Solubility in / Miscibility with water:</b>	Fully miscible.	
• <b>pH-value at 20°C:</b>	9,15	

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

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## Material Safety Data Sheet According to 91/155 EEC

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• **Trade name:** C41 digibase Stabilizer

### 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:**

#### 1,2-BENZISOTHIAZOLIN-3-ONE

LD50 (Oral Rat) = 1020 mg/kg  
LD50 (Dermal rabbit) = > 2000 mg/kg

- **Primary irritant effect:**
  - **on the skin:** May cause sensitization by skin contact.
  - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effects known.

• **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:

Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

- **Ecotoxicological effects:** 1,2-BENZISOTHIAZOLIN-3-ONE
  - LC50 (Fish, 96 hours) = NA
  - LC50 (Daphnia, 48h) = 1,5 mg/l
- **Mobility** Not available
- **Persistence and Degradability** Not available
- **Bioaccumulative potential** Not available

### 13 Disposal considerations

**EWC waste disposal No. 09 01 99 Wastes not otherwise specified**

- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of according to local and national regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**24 hour transportation emergency telephone number: Chemtrec 800-424-9300**

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## Material Safety Data Sheet According to 91/155 EEC

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• **Trade name: C41 digibase Stabilizer**

### 14 Transport information

- **Land transport ADR/RID:** -
- **Maritime transport IMDG:** -
- **Air transport ICAO-TI and IATA-DGR:** -

### 15 Regulatory information

• **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: Xn: Noxious**

• **Risk phrases:** R42/43 May cause sensitization by inhalation and skin contact.

- **Safety phrases:**
  - S2 Keep out of the reach of children.
  - S22 Do not breathe dust.
  - S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
  - S36/37 Wear suitable protective clothing and gloves.
  - S60 This material and its container must be disposed of as hazardous waste.
  - S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

**Other information :**

WGK: 1

BAG T n° (CH): 611 463

Toxicity class (CH): 3

### 16 Other information

The use of the preparation is restricted to professional users!

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